FORM PTO-14 TRADES

Page 1 of 3 APPLICATION NO. 09/770,675 ATTY. DOCKET NO. 1744.0140005
FIRST NAMED INVENTOR
David F. SORRELLS

THIRD SUPPLEMENTAL

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- 1:	AE65	6,853,690 B1	02/2005	Sorrells et al.		/	
1	AF65	4,789,837	12/1988	Ridgers			
	AG65	5,634,207	05/1997	Yamaji et al.			
	AH65	5,642,071	06/1997	Sevenhans et al.			
	Al65	6,211,718 B1	04/2001	Souetinov		/	
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ATTY. DOCKET NO. APPLICATION NO. 1744.0140005 09/770,675

FIRST NAMED INVENTOR David F. D

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THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT **FILING DATE ART UNIT** January 29, 2001 2685 U.S. PATENT DOCUMENTS DOC. **EXAMINER DOCUMENT NUMBER** DATE NAME CLASS SUB-CLASS FILING DATE REF. INITIAL 04/2001 AA66 6,212,369 B1 Avasarala 6,308,058 B1 AB66 10/2001 Souetinov et al. AC66 6,633,194 B2 10/2003 Amborg et al. AD66 2001/0036818 A1 11/2001 Dobrovolny 03/2005 AE66 6,873,836 B1 Sorrells et al. AF66 6,879,817 B1 04/2005 Sorrells et al. AG66 6,057,714 05/2000 Andrys et al. AH66 2003/0081781 A1 05/2003 Jensen et al. A166 5,994,689 11/1999 Charrier **FOREIGN PATENT DOCUMENTS EXAMINER** DOC DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION INITIAL REF. Yes AJ No Yes ΑK No Yes AL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc. EXAMINER INITIAL DOC. CITATION REF. AN AO AP AQ AR

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Page 3 of 3 APPLICATION NO. 09/770,675 ATTY. DOCKET NO. 1744.0140005 FIRST NAMED INVENTOR

David F. SORRELLS

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1	AB67	6,628,328 B1	09/2003	Yokouchi et al.			
7	AC67	6,801,253 B1	10/2004	Yonemoto et al.		/	
	AD67	3,737,778	06/1973	Van Gerwen et al.			
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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	AC50	3,24	6,084	04/19	966	Kryte	er				
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	AE50	3,76	7,984	10/19	973	Shin	oda et al.				
	AF50	3,85	2,530	12/19	974	Sher	1				
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2	AO :	<u>56</u>	Translation of application).	[†] Japai	nese Patent MHz/1.8-Ghz	Public z CMO		es (July 11			
2	AO :		Translation of application). Razavi, B., "A Digest of Teck	Japai 900-N hnical	nese Patent MHz/1.8-Ghz Papers, IEE	Public z CMO E, pp.	ation No. 60-130203, 3 pag S Transmitter for Dual-Band	es (July 11	ons, S	Symposium (on VLSI Circuits
2	AP	<u>56</u>	Translation of application). Razavi, B., "A Digest of Teck Ritter, G.M., "Exhibitions an	900-N hnical SDA, ad Pub	MHz/1.8-Ghz Papers, IEE A New Solut lishers, pp. 7	Public z CMO E, pp. ion for 729-73	ation No. 60-130203, 3 pag S Transmitter for Dual-Band 128-131 (1998). Transceivers," 16th Europe	es (July 11 d Application	ons," (Symposium o	on VLSI Circuits Microwave
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ATTY. DOCKET NO. 1744.001000C 09/567,978

APPLICATION NO. 09/567,978

APPLICANTS
Smith et al.

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	AA51	6,01	4,551	01/20	000	Peso	la et al.			/	
1	AB51	6,07	3,001	06/20	000	Soko	ler				
	AC51	6,08	5,073	07/20	000	DO Palermo et al.					
	AD51	6,40	0,963 B1	06/20	02 Glöckler		kler et al.		T	7	
	AE51	6,23	0,000 B1	05/20	01 Taylo		e		T		
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	AG51	6,54	2,722 B1	04/20	003	Sorre	ils et al.			1	
	AH51	6,56	0,301 B1	05/20	003	Cook	et al.				
1	Al51	6,09	8,046	08/20	000	Coop	er et al.				
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17	AJ20	JP 6	P 60-130203 0		07/1985		JP				Yes (Doc. AO56)
	AK20	DE 1	96 27 640 A1		01/1997		DE				No
	AL20	EP 0	087 336 A1		08/1983		EP				No
	AM20	EP 0	087 336 B1		07/1986		EP		7	7	No
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j	AO	<u>57</u>	Patel, M. et a Jitter," VTC 2	/., "Ba 1002, II	ndpass Sam EEE, pp. 190	ipling f 01-190	or Software Radio Re 5 (2002).	eceivers, an	d the Effec	t of Oversam	pling on Aperture
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SUPPLEMENTAL INFORMATION DISCLOSS RESTATEMENT

ATTY. DOCKET NO. APPLICATION NO. 1744.001000C 09/567,978

APPLICANTS Smith et al.

FILING DATE GROUP

FILING DATE May 10, 2000 2685 **U.S. PATENT DOCUMENTS EXAMINER** DATE **CLASS** FILING DATE **DOCUMENT** NAME SUB-INITIAL CLASS NUMBER AA52 5,564,097 10/1996 Swanke AB52 Heck et al. 5,898,912 04/1999 AC52 4,660,164 04/1987 Leibowitz AD52 6,580,902 B1 06/2003 Sorrells et al. Gailus et al. AE52 4,857,928 08/1989 AF52 5,389,839 02/1995 Heck AG52 5,471,665 11/1995 Pace et al. **AH52** 6,327,313 B1 12/2001 Traylor et al. AI52 5,751,154 05/1998 Tsugai **FOREIGN PATENT DOCUMENTS EXAMINER** SUB-DATE COUNTRY **CLASS** INITIAL **DOCUMENT NUMBER** TRANSLATION AJ21 EP 0 789 449 A2 & A3 08/1997 EP N/A AK21 FR 2 669 787 A1 05/1992 FR No AL21 GB 2 324 919 A 11/1998 GB N/A **AM21** JP 61-30821 02/1986 JP No OTHER (including Author, Title, Date, Pertinent Pages, etc.) Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," IEEE AN <u>58</u> Journal of Selected Topics in Quantum Electronics, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996). Simoni, A. et al., "A Digital Camera for Machine Vision," 20th International Conference on Industrial Electronics, AO 58 Control and Instrumentation, IEEE, pp. 879-883 (September 1994). Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," Electronics & AP <u>58</u> Communication Engineering Journal, IEEE, pp. 37-47 (February 1998). Rudell, J.C. et al., "A 1.9-Ghz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone AQ <u>58</u> Applications," IEEE Journal of Solid-State Circuits, IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997). English-language Abstract of Japanese Patent Publication No. 09-036664, from http://www1.ipdl.jpo.go.jp, 2 AR <u>58</u> Pages (February 7, 1997 - Date of publication of application).

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APPLICANTS Smith et al.

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	AB53	6,225,848 B1	05/2	001	Tille	ey et al.				/
i	AC53	6,313,685 B1	11/2	001	Rab				/	
	AD53	3,614,627	10/1	971	Run	yan et al.				
	AE53	3,940,697	02/19	976	Mor			$\overline{}$		
	AF53	4,016,366	04/19	977	Kura			7		
	AG53	4,045,740	08/19	977	Bak	er		7		
·	AH53	4,115,737	09/19	978	Hon	gu et al.			t	
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1	AJ22	JP 5-327356		12/1993		JP				
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<u> </u>	AM22	EP 0 977 351 A1		02/2000		EP			L	
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ſ	AC55	5,369,789	11/19	994	Kosu	gi et al.		/ /	
	AD55	5,416,449	05/19	995	Josh	i			
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	AO	<u>59</u>	English Translati	on of Germ	an Patent Publication No.	DE 196 48 91	15 A1, 10 pa	ges.
	AP	<u>59</u>	Deboo, Gordon on Inc., pp. 41-45 (1	J., Integrate 977).	d Circuits and Semicondu	ector Devices,	2 nd Edition, I	ИсGraw-Hill,

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Page 2 of 11 APPLICATION NO. 09/770,675 ATTY. DOCKET NO. 1744.0140005 FIRST NAMED INVENTOR David SORRELLS

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	AB56	6,516,185	02/2003	MacNally		//	
	AC56	6,608,647	08/2003	King		//	
•	AD56	6,687,493 B1	02/2004	Sorrells et al.		//	
	AE56	6,694,128 B1	02/2004	Sorrells et al.		<i>Y</i> /	
	AF56	6,031,217	02/2000	Aswell et al.			
	AG56	5,955,992	09/1999	Shattil			
	AH56	5,999,561	12/1999	Naden et al.		l	
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SECOND SUPPLEMENTAL

ATTY. DOCKET NO. 1744.0140005 FIRST NAMED INVENTOR

APPLICATION NO. 09/770,675

Page 3 of 11

David SORRELLS
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	AC57	5,49	90,176	02/1996	Peltier		///	
	AD57	5,97	70,053	10/1999	Schick et al.		1.	
	AE57	6,07	78,630	06/2000	Prasanna			
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	AG57	5,17	79,731	01/1993	Tränkle et al.			
	AH57	5,58	39,793	12/1996	Kassapian			
	AI57	4,51	10,467	04/1985	Chang et al.		t	
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David SORRELLS

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INITIAL	AA58	4,772,853	DATE 09/1988	NAME Hart	CLASS	SUB-CLASS	FILING DATE
Apr	AB58	4,972,436	11/1990	Halim et al.		/	1
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 } -	AC58	5,012,245	04/1991	Scott et al.	/		
	AD58	5,422,909	06/1995	Love et al.	/		
	AE58	5,440,311	08/1995	Gallagher et al.	-14		
	AF58	5,926,513	07/1999	Suominen et al.			
	AG58	5,995,030	11/1999	Cabler		_/	
	AH58	6,047,026	04/2000	Chao et al.			
	AI58	6,049,573	04/2000	Song		t	
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FIRST NAMED INVENTOR

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SECOND SUPPLEMENTAL FILING DATE INFORMATION DISCLOSURE STATEMENT January 29, 2001 2685 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS **FILING DATE AA59** 6,076,015 06/2000 Hartley et al. 11/2000 6,144,331 AB59 Jiang 6.018.553 01/2000 Sanielevici et al. AC59 AD59 6,317,589 B1 11/2001 Nash AE59 5,058,107 10/1991 Stone et al. AF59 5,757,858 05/1998 Black et al. 6,531,979 B1 03/2003 **AG59** Hynes **AH59** 6,018,262 01/2000 Noro et al. A159 4,761,798 08/1988 Griswold, Jr. et al. **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL **DOCUMENT NUMBER** DATE COUNTRY CLASS SUB-CLASS **TRANSLATION** Yes AJ No Yes ΑK No Yes AL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) AN AO ΑP AQ AR **EXAMINER** DATE CONSIDERED

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_v\	AA60	5,982,315	11/1999	Bazarjani et al.			
	AB60	6,459,721 B1	10/2002	Mochizuki et al.		/	
	AC60	6,151,354	11/2000	Abbey		/ /	
	AD60	6,169,733 B1	01/2001	Lee		1	
	AE60	6,363,262 B1	03/2002	McNicol		/	
	AF60	6,697,603 B1	02/2004	Lovinggood et al.			
	AG60	5,282,222	01/1994	Fattouche et al.			
	AH60	5,949,827	09/1999	DeLuca et al.		1/	
	A160	6,014,176	01/2000	Nayebi <i>et al.</i>		1	
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al a	AA61	5,678,226	10/1997	Li et al.			
, 100	AB61	5,760,632	06/1998	Kawakami et al.			/
	AC61	6,160,280	12/2000	Bonn et al.		1	
•	AD61	5,481,570	01/1996	Winters			
	AE61	5,745,846	04/1998	Myer et al.		/	
7	AF61	5,345,239	09/1994	Madni et al.			
	AG61	4,132,952	01/1979	Hongu et al.			
	AH61	5,260,973	11/1993	Watanabe			
·	Al61	6,307,894 B2	10/2001	Eidson et al.		t	
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9	AA62	6,091,289	07/2000	Song et al.					
. 10	AB62	6,437,639 B1	08/2002	Nguyen et al.			/		
	AC62	2002/0037706 A1	03/2002	Ichihara		/ /			
	AD62	4,441,080	04/1984	Saari		/ /			
	AE62	4,873,492	10/1989	Myer					
	AF62	5,697,074	12/1997	Makikallio et al.					
	AG62	5,784,689	07/1998	Kobayashi					
	AH62	6,335,656 B1	01/2002	Goldfarb et al.					
V	A162	6,690,232 B2	02/2004	Ueno et al.		t			
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y	AA63	5,636,140	06/1997	Lee et al.			1
	AB63	6,366,622 B1	04/2002	Brown et al.		/ - /	
	AC63	6,600,795 B1	07/2003	Ohta et al.			
	AD63	4,250,458	02/1981	Richmond et al.			
	AE63	5,760,629	06/1998	Urabe et al.			
	AF63	6,084,465	07/2000	Dasgupta		/	
	AG63	6,204,789 B1	03/2001	Nagata			
	AH63	6,064,054	05/2000	Waczynski et al.		1	
	Al63	5,218,562	06/1993	Basehore et al.		t	
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7		AA64	5,239,4		08/1993	Vancraeynest		2100	/	/ /
, P		AB64	5,896,3	04	04/1999	Tiemann et al.				/
i		AC64	6,005,9	03	12/1999	Mendelovicz				
•		AD64	5,834,9	79	11/1998	Yatsuka				
		AE64	6,798,3	51 B1	09/2004	Sorrells et al.		$\overline{}$	1	
	-	AF64	6,813,4	85 B2	11/2004	Sorrells et al.		7		
		AG64	5,410,2	70	04/1995	Rybicki et al.				
1		AH64	6,509,7	77 B2	01/2003	Razavi et al.				
		AI64	5,982,3	29	11/1999	Pittman et al.	1		/	
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	AA65	6,208,636 B1	03/2001	Tawil et al.			
, ,	AB65	3,614,630	10/1971	Rorden	7		
	AC65	6,836,650 B2	12/2004	Sorrells et al.			
	AD65	5,844,868	12/1998	Takahashi et al.	7		
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1	AA1	2,0	57,613	10/1	936	Garc	Iner	250	0	8	
	AB1	2,2	41,078	05/1	941	Vree	land	179	9	15	
	AC1	2,2	70,385	01/1	942	342 Skillma	Skillman	179	9	15	
	AD1	2,2	83,575	05/1	5/1942	/1942 Roberts ·	erts ·	250)	6	
	AE1	2,3	58,152	09/1	944	Earp		179	9	171.5	<u> </u>
	AF1	2,4	10,350	10/1	946	Labi	n et al.	179	9	15	ļ
	AG1	$\overline{}$	51,430	10/1	· ·	Ваго	ne	250		8	<u> </u>
	AH1		62,069	02/1		Chat	terjea <i>et al</i> .	250)	17	
	Al1	2,46	62,181	02/1			selfinger	250)	17	
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1	AJ1	DE	42 37 692 C1		03/1994		DE	но	4B	1/26	N
. Y	AK1	EP	O 035 166 A1		09/1981		EP	но	4B	1/26	N
	AL1	EP	0 193 899 B1		06/1990		EP	G0	18	7/52	N/
	AM1	EP	0 380 351 A2		08/1990		EP	Н0:	3H	17/04	N/
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,1	AN	1	Aghvami, H. e Fourth Interna 153 (October	ational	Conference	Satel on Sa	lites Using the Highly Elli Itellite Systems for Mobile	ptic Orbits- Communic	The UI cations	K T-SAT Mob and Navigat	oile Payload," ion, IEE, pp. 147-
r 1	AO	1	Akers, N.P. e 49 (January 1	<i>t al.</i> , "l 986).	RF Sampling) Gate:	s: a Brief Review," <i>IEE Pr</i>	oceedings,	IEE, V	ol. 133, Part	A, No. 1, pp. 45-
	AP	1	Al-Ahmad, H Techniques fo IEE, pp. 4/1-4	r CEF	RS and T-SA	T," <i>Ele</i>	quency Correction for a N actronics Division Colloqu	lon-Geosta iium on Lov	lionary v <i>Nois</i> e	Communicat Oscillators e	ions Satellite. and Synthesizers,
	AQ	1	Ali, I. <i>et al.</i> , "C 46, No. 3, pp.	opple 309-3	r Characteriz 13 (March 1	zation 998).	for LEO Satellites," <i>IEEE</i>	Transactio	ns on (Communicatio	ons, IEEE, Vol.
	ĄR	1	Allan, D.W., "Stability, IEEE	Statist	ics of Atomic 221-230 (Feb	Frequence	uency Standards," <i>Procee</i> 1966).	edings Of T	he IEE	E Special Iss	ue on Frequency
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70	AA2	2,4	72,798	06/1	949	Fred	lendall	17	8	44	
	AB2	2,4	97,859	02/1	1950 Boughtwood et al.		25	0	8		
	AC2	2,4	99,279	02/1	950	1 	rson	33	2	41	
1	AD2	2,8	02,208	08/19	957	Hob	bs	34	3	176	
	AE2	2,9	85,875	05/19	961	Gris	dale et al.	34	3	100	1
	AF2	3,0	23,309	02/1	962	Foul	kes	25	0	17	
	AG2	3,0	69,679	12/19	962	Swe	eney et al.	34	3	200	
	AH2	3,1	04,393	09/19	963	Vog	elman	34	3	200	
	Al2	3,1	14,106	12/19	963	McN	lanus	32		56	
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1	AJ2	EP	EP 0 380 351 A3		02/1991		EP	но	3Н	17/04	N//
<u> </u>	AK2	EP	0 411 840 A2		02/1991	_	EP	GO	1R	33/36	N//
	AL2	EP	0 411 840 A3		07/1991		EP	GO	1R	33/36	N//
	AM2	EP	0 411 840 B1		10/1995		EP	G0	1R	33/36	N/A
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1	AN	2	Alistot, D.J. e SC-13, No. 6,	<i>t al.</i> , "t pp. 80	MOS Switch 06-814 (Dec	ed Ca ember	pacitor Ladder Filters," <i>Il</i> [•] 1978).	EEE Journa	l of Sol	id-State Circu	uits, IEEE, Vol.
۲	AO	2	Allstot, D.J. a Filtering Syste	nd Bla ems," /	ck Jr. W.C., Proceedings	"Tech	nological Design Consid D <i>IEEE</i> , IEEE, Vol. 71, No	lerations for o. 8, pp. 967	Monoli '-986 (<i>F</i>	thic MOS Sw August 1983).	itched-Capacitor
	AP	<u>2</u>	Alouini, M. et Proceedings	al., "C Of the	hannel Char IEEE, IEEE,	acteri Vol. (zation and Modeling for I 35, No. 6, pp. 981-997 (J	Ka-Band Ve lune 1997).	ry Sma	ll Aperture Te	erminals,"
	AQ	2	Andreyev, G./ Propagation in 43, No. 12, pp	la Tu	rbulent Atmo	soher	ase Distortions of Keyede," Telecommunications	Millimeter- and Radio	Wave S Engine	Signals in the ering, Scripta	Case of Technica, Vol.
	AR	2	Antonetti, A. e Publishing Co	<i>t al.</i> , " mpany	Optoelectron	nic Sa o. 2, p	mpling in the Picosecono p. 211-214 (May 1977).	d Range," O	ptics C	ommunication	ns, North-Holland
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	- AA3	3,1	18,117	01/1	964	King	et al.	332	22	
T.	AB3	3,22	26,643	12/1	12/1965 McNair 06/1966 Shepherd 05/1968 Sanders		325	40		
1	AC3	3,2	58,694	06/1			herd	325	145	
	AD3	3,38	83,598	05/1			iers	325	163	
	AE3	3,38	84,822	05/1	968	Miya	gi	325	30	
	AF3	3,45	54,718	07/1	969	Perre	eault	178	66	
	AG3	3,52	23,291	08/1	970	Pierr	et	340	347	
	АН3	3,54	48,342	12/19	970	Maxe	ey .	332	9	
	AI3	3,55	55,428	01/1	971	Perre	eault	325	320	
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	AJ3	EP	EP 0 423 718 A2 EP 0 423 718 A3		04/1991		EP	H04N	7/01	N/A
*	АКЗ	EP			08/1992		EP	H04N	7/01	N/A
)	AL3	EP	0 486 095 A1		05/1992		EP	H03D	3/00	N/A
	АМЗ	EP	0 486 095 B1	02/1997		EP	H03D	3/00	N/A	
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17	AN	3	Austin, J. et a European Mid 1988).	al., "Do croway	oppler Corrected Conference	ction o ce, Mic	f the Telecommunications and the second seco	on Payload Osci d Publishers Ltd	lators in the UK , pp. 851-857 (\$	T-SAT," 18 th September 12 - 15,
	AO	3	Auston, D.H., Institute of Pi	"Pico nysics,	second opto Vol. 26, No.	electro 3, pp.	nic switching and gatir 101-103 (February 1,	ng in silicon," <i>Ap</i> 1975).	olied Physics Le	atters, American
	AP	3	Baher, H., "To and Systems,	ransfe IEEE	r Functions f Circuits and	for Swi I Syste	tched-Capacitor and W ms Society, Vol. CAS-	/ave Digital Filte 33, No. 11, pp. 1	rs," <i>IEEE Trans</i> a 138-1142 (Nove	actions on Circuits ember 1986).
	AQ	3	Baines, R., "I (May 1995).	The DS	SP Bottlened	k," <i>IEE</i>	E Communications Ma	ngazine, IEEE Co	ommunications \$	Society, pp. 46-54
	AR	3	Banjo, O.P. a	nd Vila	ar, E., "Binar IEE, Vol. 21	y Erroi , No. 7	r Probabilities on Earth , pp. 296-297 (March 2	-Space Links Su 28, 1985).	bject to Scintilla	tion Fading,"
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EXAMINER INITIAL			CUMENT	DAT		NAM			CLASS	SUB-	FILING DATE
- 1.	AA4		7,892	11/19	271	House	lov ot of		225	CLASS	
1	AB4		1,402	11/19		Gard	ley et al.		325 328	37	
	AC4	_	3,160	11/19			et al.		340		
• 1	AD4	_								347 DA	
	AE4		6,417	12/19		Gilbe			343	203	
			9,696	12/19		Barte			324	57 R	
	AF4		2,268	05/19			s et al.		325	56	
	AG4		9,841	09/19		1	et al.		325	39	<u> </u>
	AH4		4,577	01/19		Haye	es		325	145	
	Al4	3,71	7,844	02/19			et et al.		340	5 R	<u> </u>
			<u>-</u>		FOREIGN	PAT	ENT DOCUMENTS				-
EXAMINER NITIAL		DOC	CUMENT NUME	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
h	AJ4	AJ4 EP 0 512 748 A2			11/1992		EP		H04N	9/64	N//
	AK4	EP (512 748 A3	12 748 A3 07/1993 EP		EP		H04N	9/64	N//	
	AL4	EP 0	512 748 B1		11/1998		EP		H04N	9/64	N/A
	AM4	EP 0	548 542 A1	3 542 A1 06/1993			EP		H03B	19/14	N/A
			OTHE	R (Inc	luding Aut	hor, Ti	tie, Date, Pertinent I	Pages, etc	.)		
	AN	4	Banjo, O.P. ar Parameters," pp. 277-280 (I	Fifth I	nternational	Confe	dence of Slant Path A rence on Antennas ar	mplitude S ad Propaga	cintillations	s on Various 87) Part 2: F	Meteorological Propagation, IEE,
· · · · · · · · · · · · · · · · · · ·	AO	4	Paths and Imp	act o	n Communic	ation S	nt and Modeling of An Systems," <i>IEEE Trans</i> 780 (August 1986).	nplitude So sactions on	intillations Communi	on Low-Elevi cations, IEEE	ation Earth-Space Communications
	AP	4	Banjo, O.P. et Fourth Interna	al., ''' tional	Fropospheric Conference	Ampl on An	itude Spectra Due to a tennas and Propagati	Absorption ion (ICAP (and Scatte 85), IEE, p	ering in Earth o. 77-82 (Apri	-Space Paths," I 16-19, 1985).
	AQ	4	Basili,P. et al., and Propagati	"Cas	e Study of Ir EE, Vol. 38,	ntense No. 1,	Scintillation Events o	n the OTS y 1990).	Path," <i>IEE</i>	E Transaction	ns on Antennas
	AR	4	Basili, P. et al. Letters, IEE, V	, "Obs	servation of i	High C	² and Turbulent Path 1116 (August 18, 198	Length on 38).	OTS Spac	e-Earth Link,	* Electronics
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FORM PTO-1449 INFORMATION DISCLOSURE

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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" /		AA5	3,7	35,048	05/19	973	Tom	sa et al.		179	15 BM	
1		AB5	3,8	06,811	04/19	974	Thor	npson		325	146	
I		AC5	3,8	68,601	02/19	975	Mac	Afee		332	45	
		AD5	3,9	49,300	04/19	976	Sadi	er		325	31	
		AE5	3,9	67,202	06/19	976	Batz			325	31	
		AF5	3,9	80,945	09/19	976	Bick	ford		325	30	
		AG5	3,9	87,280	10/19	976	Baue	er		235	150.53	
		AH5	3,9	91,277	11/19	976	Hirat	a		179	15 FD	
		Al5	4,0	03,002	01/19	977	Snijo	lers et al.		332	10	
						FOREIGN		ENT DOCUMENTS			<u> </u>	
NAMI			DO	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO
1		AJ5	EP	0 632 288 A2		01/1995		EP		G01S	13/75	N
Y		AK5	EP	0 632 288 A3		07/1996		EP		G01S	13/75	N
		AL5	EP	0 696 854 A1		02/1996		EP		H04B	1/26	N
•	_	AM5	EP	0 782 275 A2		07/1997		EP		H04B	7/02	N
				OTHE	R (Inc	luding Auti	hor, T	itle, Date, Pertinent Pa	ges, etc.	.)		
h		AN	<u>5</u>	Blakey, J.R. & Region," <i>Elec</i>	nt al., " tronics	Measureme s Letters, IEE	nt of A E, Vol.	tmospheric Millimetre-V 21, No. 11, pp. 486-487	Vave Pha 7 (May 23	ase Scintilla 3, 1985).	ations in an A	Absorption
1		AO	<u>5</u>	Burgueño, A. communicatio (September/C	ins," a	nnales des t	f rain g lèlècor	gauge integration time o nmunications, Internatio	n the rain	n rate statis n of Radio	stics used in Science, pp.	microwave 522-527
		AP .	5	Application to	Micro	wave Comm	ıunical	Statistical Analysis of Di lions," <i>Fifth Internationa</i> 201 (March 30 - April 2,	l Confere	nd Intensity	of Rainfall fennas and F	Rate with Propagation (ICA)
		AQ	<u>5</u>	Burgueño, A. Communicatio IEE, pp. 297-3	ins, S	Sixth Internat	tional (tics of Precipitation Rate Conference on Antenna	e Return s and Pro	Periods in pagalion (the Context of	of Microwave of 2: Propagation
		AR	5	Burguefio, A. Transactions (1990).	et al., on Cor	"Spectral An	alysis s, IEE	of 49 Years of Rainfall E Communications Soc	Rate and iety, Vol.	Relation to 38, No. 9,	o Fade Dyna pp. 1359-136	mics," IEEE 66 (September
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

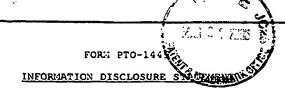
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1/4	AA6	+	13,966	03/1	977	Cam	pbell	32	5	363	
-	AB6		19,140	04/1			rdlow	32		65	
	AC6		35,732	07/1			mann	325		446	
	AD6		47,121	09/19		 	pbell	33		76	+
	AE6		6,841	01/1		Your		178		66 R	
	AF6		6,919	01/1		_	ington	30		353	
	AG6		31,748	03/1		Batz		329		56	
	AH6	_	30,765	12/1			elian <i>et al</i> .	307		220 R	
	Al6		30,806	12/1			Gerwen et al.	325		487	
							ENT DOCUMENTS			1,10.	_
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ6	EP	0 785 635 A1		07/1997		EP	Ho	4B	1/713	No
Y	AK6	EP	0 795 978 A2		09/1997		EP	HO	4L	5/06	N/A
	AL6	EP	0 837 565 A1		04/1998		EP	HO	4B	1/69	N/A
	AM6	EP	0 862 274 A1		09/1998		EP	Н0:	3M	1/06	N/A
			OTHE	R (Inc	luding Auti	hor, T	tle, Date, Pertinent Pa	res. etc.)			
	AN	<u>6</u>	Catalan, C. a No. 12, pp. 12	nd Vila 238-12	ır, E., "Appro 40 (June 11	pach fo , 1998	or satellite slant path rem).	note sensing	ı," Elect	ronics Letter	s, IEE, Vol. 34,
r C	AO .	<u>6</u>	Chan, P. et al Conference, I	., "A H EEE (lighly Linear Communicati	1-GH; on So	z CMOS Downconversio ciety, pp. 210-213 (Sept	n Mixer," <i>Eu</i> ember 22-24	<i>iropean</i> I, 1993)	o Solid State).	Circuits
	AP	6	Copy of Declarelated subject	aration at matt	of Michael J er, 2 pages.	J. Bultı	nan filed in patent applic	cation Ser. N	lo. 09/1	76,022, whic	ch is directed to
	AQ	6	Copy of Declarelated subject	aration at matt	of Robert W er, 2 pages.	/. Coo	k filed in patent applicati	on Ser. No.	09/176	,022, which is	s directed to
	AR	6	Copy of Decla subject matter	ration r, 3 pa	of Alex Holt ges.	z filed	in patent application Se	r. No. 09/170	5,022, v	which is direc	sted to related

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. :COMANHOGMAISKGP_DC1;37291;1

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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

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Sorrells et al.

FILING DATE January 29, 2001 GROUP 2683

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EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	IE	CLASS	SUB- CLASS	FILING DATE
	AA7	4,142,155	02/1	979	Adad	:hi	325	47	
<u></u>	AB7	4,170,764	10/1	979	Saiz	et al	332	17	
	AC7	4,204,171	05/1	980	Sutp	hin, Jr.	328	167	
	AD7	4,210,872	07/1	980	Greg	orian	330	9	
	AE7	4,245,355	Ö1/1	981	Pasc	coe et al.	455	326	
	AF7	4,253,066	02/1	981	Fisher et al.		329	50	
	AG7	4,253,069	02/1	981	Nossek		330	107	
	AH7	4,308,614	12/1	981	Fish	er et al.	370	119	
V	AI7	4,320,361	03/1	982	Kikk	ert	332	16 R	
		-		FOREIGN	N PAT	ENT DOCUMENTS		'de-f	•
XAMINER NITIAL		DOCUMENT I	NUMBER	DATE	_	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
1	AJ7	EP 0 874 499	A2	10/1998		EP	H04L	25/06	N
	AK7	FR 2 743 231	A1	07/1997		FR	H04B	7/12	
	AL7	GB 2 161 344	A	01/1986		GB	H04B	7/12	N/
t	AM7	GB 2 215 945	A	09/1989		GB	H04L	27/00	N/
		<u> </u>		A 41 A 41		tle, Date, Pertinent Pa			<u>.</u>
g	AN	7 Copy of related s	Declaration subject mat	n of Richard (ter, 2 pages.	C. Loo	ke filed in patent applica	ation Ser. No. 09/1	76,022, which	is directed to
	AO	Copy of related s	Declaratior ubject mat	of Charley I ler, 2 pages.	D. Mos	ses, Jr. filed in patent ap	oplication Ser. No. (09/176, 02 2, w	hich is directed to
	AP	Copy of application	Declaration on Ser. No.	of Jeffrey L. 09/176,022	. Parke , which	er and David F. Sorrells, is directed to related s	, with attachment E ubject matter, 130	xhibit 1, filed pages.	in patent
	ΑQ	Dewey, f	R.J. and Co	ollier, C.J., "N s, IEE, pp. 3	/lulti-M /1-3/5	ode Radio Receiver," <i>E</i> (October 18, 1985).	ilectronics Division	Colloquium o	n Digitally
	AR	7 DIALOG Date of p	File 347 (J	APIO) Englis	sh Lan	guage Patent Abstract f	for JP 2-276351, 1	page (Novem	ber 13, 1990 -
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al.

FILING DATE January 29, 2001 GROUP 2683

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- 1		AA8	4,32	0,536	03/19	982	Dietr	ich	455		325		
70		AB8	4,34	6,477	08/19	82	Gord	у	455		257		
		AC8	4,35	5,401	10/19	82	lkom	a et al.	375		5		
		AD8	4,35	6,558	10/19	82	Owe	n <i>et al.</i>	364		724		
		AE8	4,36	0,867	11/19	182	Gond	la	363		158		
		AF8	4,36	3,132	12/19	82	Collin)	455		52		
		AG8	4,36	5,217	12/19	82	Berg	er et al.	333		165		
	/	AH8	4,37	0,572	01/19	83	Cosa	nd et al.	307		353		
. 0		AI8	4,38	9,579	06/19	83	Stein		307		353		
		FOREIGN PATENT DOCUMENTS											
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11	AJ8 JP 2-39632 02/1990 JP H04B 7/12												
, h		AK8	JP 2	-131629		05/1990		JP	H04	В	7/12	N	
·		AL8	JP 2	-276351		11/1990		JP	H04	L	27/22	1	
	/	AM8	wo	80/01633 A1		08/1980		РСТ	H04	J	1/08	N/	
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0.	,	AN	<u>8</u>	DIALOG File publication of	347 (J applic	APIO) Englis ation).	sh Lan	guage Patent Abstract f	or JP 2-1316	29, 1 p	age (May 2	1, 1990 - Date of	
-pe		AO	<u>8</u>	DIALOG File publication of	347 (J applic	APIO) Englisation).	sh Lan	guage Patent Abstract f	or JP 2-3963	2, 1 pa	ge (Februar	y 8, 1990 - Date (
		AP B DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, 3 pages (December 26, 1996 - Date of publication of application).											
	,	AQ	8	DIALOG File 18, 1981 - Da	348 (E te of p	uropean Pa ublication of	tents) applic	English Language Pater ation).	nt Abstract fo	r EP 35	5166 A1, 2 p	ages (February	
1	-	AR	<u>8</u>	"DSO takes s 77 and 79 (M	amplir arch 1	ng rate to 1 C 987).	Ghz," <i>E</i>	Electronic Engineering, N	Morgan Gram	pian Pı	ublishers, Vo	ol. 59, No. 723, p	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

EXAMINER

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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

FILING DATE

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**	AA9	4,39	2,255	07/19	983	Del C	Siudice		455	328	
Y	AB9	4,43	0,629	02/19	984	Betz	et al.		333	165	
1	AC9	4,44	6,438	05/19	984	Char	ig et al.		328	127	
	AD9	4,45	6,990	06/19	984	Fishe	er et al.		370	119	
	AE9	4,47	2,785	09/19	84	Kasu	ga		364	718	
	AF9	4,47	9,226	10/19	84	Prab	hu <i>et al.</i>		375	1	
	AG9	4,48	1,490	11/19	984	Hunt	ley		332	41	
	AH9	4,48	1,642	11/19	984	Hans	on		375	9	
	AI9	4,48	5,488	11/19	84	Houd	lart		455	327	
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ساد	AJ9	wo	94/05087 A1		03/1994		PCT		нозм	1/00	N/.
Y	AK9	wo	96/02977 A1		02/1996		PCT		H04B	1/26	N/A
	AL9	wo	96/08078 A1	·· -	03/1996		PCT		H03D	3/00	N//
	AM9	wo	96/39750 A1		12/1996	-	PCT		H04B	1/26	N//
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	AN	9)					sion FET-Less Sample-r cuits, IEEE, Vol. SC-13,				
	AO	9		EEE 1			nonic Sampling for the M trumentation and Measu				
	АР	9	1	scillato	ors," CPEM		Sampling for the Accuratest: Conference on Prec		_		
	AQ	9	Faulkner, N.I Techniques," (1984).). and CPEN	Vilar, E., "Tii 184 Digest (me Do Confer	main Analysis of Freque ence on Precision Electr	ncy Sta omagne	bility Using tic Measure	Non-Zero De Dements, IEEE	ead-Time Counter E, pp. 81-82
	AR	9	Amplitude Sc	intillati	ons and Rai	n Atte	ation of the Channel Cap nuation,* <i>IEEE Transacti</i> 5 (November 1990).	acity of ons on (a Satellite I Communica	ink in the Pitions, IEEE (resence of Communications
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al.

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10	AA10	4,5	04,803	03/1	985	Lee	et al.	333	2	31 R	
, , , , , , , , , , , , , , , , , , ,	AB10	4,5	17,519	05/1	985	Muk	aiyama	329	€	126	
	AC10	4,5	17,520	05/1	985	Oga	wa	329		145	
	AD10	4,5	18,935	05/1	985	van	Roermund	333	3	173	
	AE10	4,5	21,892	06/1	985	Van	ce et al.	379	5	88	
	AF10	4,5	63,773	07/19	986	Dixo	n, Jr. et al.	455	5	327	
	AG10	4,5	77,157	03/1	986	Ree	d	329)	50	
	AH10	4,5	83,239	04/1	986	Van	œ	375	5	94	
	Al10	4,5	91,736	05/19	986	Hira	o et al.	307	7	267	
					FOREIGN	I PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
12	AJ10	wo	97/38490 A1		10/1997	***************************************	PCT	Н0:	3K	7/00	N/A
7	AK10	wo	98/00953 A1		01/1998		РСТ	но	\$L	27/26	N/A
}	AL10	wo	98/24201 A1		06/1998		PCT	Н04	\$H	1/00	N/A
	AM10	EP	0 099 265 A1		01/1984		EP	Н03	3D	3/04	N/A
		•	OTHE	R (Inc	cluding Auti	hor. T	itle, Date, Pertinent Pa	ges. etc.)			
	AN	<u>10</u>	Fukahori, K., IEEE, Vol. SC	'A CM -19, N	IOS Narrow- Io. 6, pp. 926	Band 6-932	Signaling Filter with Q R (December 1984).	eduction," /E	EE Jo	umal of Solid	-State Circuits,
1	AO	<u>10</u>	Fukuchi, H. a. Microwaves, A	nd Ots A <i>nteni</i>	su, Y., "Availa nas and Prop	able ti pagatio	me statistics of rain atter on, IEE, Vol. 135, Pt. H,	nuation on ea No. 6, pp. 38	arth-sp 37-390	ace path," <i>IE</i> (December 1	E Proceedings-H: 988).
	АР	<u>10</u>	Gibbins, C.J.: Vol. 134, Pt. F	and C	hadha, R., "f 2 , pp. 169-1	Millime 73 (Ap	etre-wave propagation th oril 1987).	rough hydro	carbon	flame," IEE I	Proceedings, IEE,
	AQ	<u>10</u>	Gilchrist, B. el Publishing, Vo	<i>al.</i> , "S	Sampling hik No. 1, pp. 93	es per 3-94 a	formance of frequency s nd 110 (January 1984).	synthesizers	" Micro	owaves & RF,	Hayden
	AR	<u>10</u>	Gossard, E.E. Science, Ame	, "Clea	ar weather m Geophysical	eteore Union	ological effects on propa , Vol. 16, No. 5, pp. 589	gation at free 608 (Septer	quencion nber -	es above 1 Gi October 1981	hz," <i>Redio</i> }.
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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 109/770,675

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Sorrells et al.

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						ATEN	T DOCUMENTS			
EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
11	AA11	4,60	2,220	07/19	986	Kurit	ara	331	19	
Ac	AB11	4,60	008,80	07/19	986	Well	es, II <i>et al</i> .	329	50	
	AC11	4,61	12,464	09/19	986	Ishik	awa et al.	307	496	
	AD11	4,61	12,518	09/19	986	Gans	et al.	332	21	
	AE11	4,61	16,191	10/19	986	Gala	ni <i>et al.</i>	331	4	
	AF11	4,62	21,217	11/19	986	Saxe	et al.	315	1	
	AG11	4,62	28,517	12/19	986	Schv	varz et al.	375	40	
	AH11	4,63	34,998	01/19	987	Craw	ford	331	1 A	
	Al11	4,64	18,021	03/19	987	Albei	krack	363	157	
					FOREIGN	PAT	ENT DOCUMENTS			
EXAMINER NITIAL		DOG	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
1	AJ11	EP (0 560 228 A1		09/1993		EP	H03D	7/12	N
V	AK11	FR 2	2 245 130		04/1975		FR	H03K	5/13	Y∉ (See AP5
	AL11	DE :	35 41 031 A1		05/1986		DE	H03D	3/00	Ye (See AR5
	AM11	EP (0 732 803 A1		09/1996		EP	H03D	3/00	Ye (See AN5
			OTHE	R (Inc	luding Auti	hor, Ti	tle, Date, Pertinent Pag	es, etc.)		
	AN	11	Gregorian, R. 941-966 (Aug	<i>et al.</i> , ust 19	"Switched-(83).	Capac	tor Circuit Design," <i>Proce</i>	edings of the IE	EE, IEEE, Vo	l. 71, No. 8, pp.
¥ 	AO	11	Groshong et a 67-68, 70, 73	e/., "Ur -75 an	ndersampling d 78 (May 2	g Tech 3, 199	niques Simplify Digital R 1).	adio," <i>Electronic</i>	<i>Design</i> , Pente	on Publishing, pp.
	АР	<u>11</u>	Grove, W.M., Microwave Ti	"Sam neory a	pling for Osc and Techniqu	ailloscc Seu	pes and Other RF Syste EEE, pp. 629-635 (Decem	ms: Dc through nber 1966).	X-Band," <i>IEEE</i>	Transactions on
	AQ	11	Haddon, J. et Propagation,	a/., "M IEE, p	leasurement p. 113-117 (t of Mi 1981).	crowave Scintillations on	a Satellite Dowr	-Link at X-Ba	nd," <i>Antennas an</i> c
	AR	11	Haddon, J. ar Paths and the 34, No. 5, pp.	Influe	nce of Anter	nna Ap	nduced Microwave Scintil perture," IEEE Transactio	lations from Cleans on Antennas	ar Air and Rair and Propagati	n on Earth Space ion, IEEE, Vol. AF
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

PAGEMINATION

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA12	4,651,034	03/1	987	Sato		307	556	
Ψ	AB12	4,675,882	06/1	987	Lillie	et al.	375	80	
	AC12	4,688,253	08/1	987	Gum	m	381	7	
	AD12	4,716,376	12/1	987	Dauc	telin	329	107	
	AE12	4,716,388	12/1	987	Ja∞	bs	333	173	
	AF12	4,718,113	01/1		+	er et al.	455	209	
	AG12	4,726,041	02/1		_	aska <i>et al.</i>	375	91	
	AH12	4,733,403	03/1		Simo		375	103	
	Al12	4,734,591	03/1		Ichita		307	219.1	
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1	AJ12	DE 197 35 798 0	1	07/1998		DE	H04L	27/00	Yes (See AP51
<u> </u>	AK12	WO 98/40968 A	2&A3	09/1998		PCT	HO3L	7/08	N/A
	AL12	EP 0 529 836 A1		03/1993		EP	H03L	7/089	N/A
	AM12	EP 0 795 955 A2	&A3	09/1997		EP	H03D	13/00	N/A
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1	AN	4, 1988).	_	· · · · · · · · · · · · · · · · · · ·	-	Sampler," <i>Electronics L</i>			
	AO	12 Herben, M. Electronics	H.A.J., ' Letters,	'Amplitude ai , IEE, Vol. 18	nd Pha I, No. 7	ise Scintillation Measurer 7, pp. 287-289 (April 1, 19	ments on 8-2 km l 982).	ine-Of-Sight	Path at 30 Ghz,"
	AP	12 Hewitt, A. of for Telecon	et al., "Al nmunica	n 18 Ghz Wid tion Transmi	deband ssion S	d LOS Multipath Experim Systems - MTTS 85, IEE,	ent," <i>International</i> pp. 112-116 (Nov	Conference (rember 27-28	on Measurements , 1985)
	AQ	Hewitt, A. 6 Measurem 1136-1143	ents," <i>IE</i>	EE Transacti	sive A ions oi	pproach to the Identificat of Communications, IEEE	ion of Multipath Ra Communications	ay Parameter Society, Vol.	s from Field 37, No. 11, pp.
	AR .	Hewitt, A. a Measurem 7, pp. 789-	ent Tech	niques," IEE	ve fadi E Tran	ng on LOS Microwave Li sactions on Communical	nks: Classical and ions, IEEE Comm	Spread-Spe unications S	ctrum ociety, Vol. 36, No
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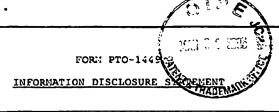
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1	AA13	4,73	7,969	04/19	988	Stee	et al.	375	5	67	
٢	AB13	4,74	3,858	05/19	88	Ever	ard	330)	10	
	AC13	4,74	5,463	05/19	988	Lu		358	3	23	
	AD13	4,75	1,468	06/19	88	Agos	ton	320	3	133	<u> </u>
	AE13	4,75	7,538	07/19	988	Zink		38	1	7	
	AF13	4,76	68,187	08/19	888	Mars	hail	370)	69.1	
	AG13	4,76	9,612	09/19	88	Tam	akoshi et al.	328	3	167	
	AH13	4,78	5,463	11/19	888	Janc	et al.	375	5	1	
	Al13	4,79	1,584	12/19	88	Greiv	enkamp, Jr.	364	4	525	
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.1	AJ13	EP (0 817 369 A2&	A3	01/1998		EP	НО	3D	7/00	N/
7	AK13	wo	91/18445 A1		11/1991		PCT	НО	3D	7/18	N/
	AL13	wo	99/23755 A1		05/1999		PCT	но	3D	7/16	N/
	AM13	JP 5	56-114451		09/1981		JP	но	4B	7/02	N
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M	AN	<u>13</u>	Hospitalier, E Vol. VII, pp. 2			Recor	ding and Observing Rapid	ly Varying	Pheno	mena," <i>Scie</i> i	nce Abstracts, IEI
	AO	<u>13</u>	Howard, I.M. Detection," To Australia, pp.	he Insi	titution of En	gineer	emodulating High Frequen 's <i>Australia Vibration and N</i> -20, 1990).	cy Reson Voise Con	ance Si ference	gnals for Be , Institution o	aring Fault of Engineers,
	AP	<u>13</u>	Hu, X., <i>A Swi</i> Science, Dep 64 (1995).	itched- it. of E	Current San lectrical and	nple-ai Comp	nd-Hold Amplifier for FM D uter Engineering, Universi	emodulati ty of Toro	ion, The nto, UN	osis for Maste II Dissertatio	er of Applied n Services, pp. 1
	AQ	<u>13</u>					of Microwave Integrated C st, IEEE, pp. 507-510 (199		sing An	Optical Phas	se-Locking and
	AR	<u>13</u>					esponse of Switched-Capa , IEEE Circuits and System				

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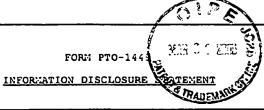
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
ساه	AA14	4,80	1,823	01/19	989	Yoko	yama	307	353	
Y	AB14	4,80	6,790	02/19	989	Sone)	307	353	
	AC14	4,81	0,904	03/19	989	Craw	ford	307	353	
	AD14	4,81	0,976	03/19	989	Cow	ey et al.	331	117 R	
	AE14	4,81	1,362	03/19	989	Yest	er, Jr. et al.	375	75	
	AF14	4,81	9,252	04/19	989	Chris	topher	375	122	
	AG14	4,83	3,445	05/19	989	Buch	ele	341	118	
	AH14	4,86	2,121	08/19	989	Hoch	schild et al.	333	173	
<u> </u>	Al14	4,86	8,654	09/19	989	Juri e	et al.	358	133	
					FOREIGN	PAT	NT DOCUMENTS		*	
EXAMINER NITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ14	JP 8	-32556		02/1996	·	JP	H04L	1/04	No
7	AK14	JP 8	-139524		05/1996		JP	H03D	7/00	No
	AL14	JP 5	9-144249		08/1984		JP	H04L	27/00	No
	AM14	JP 6	3-54002		03/1988		JP	H03B	19/114	No
		1	OTUE	:D ((n)	ludina Auti	or T	tie, Date, Pertinent Pag			
M	AN	<u>14</u>	Itakura, T., "E IEE Proceedii	iffects ngs Ci	of the sampl rcuits, Devic	ling pu	lse width on the frequent of Systems, IEE, Vol. 141	cy characteristics , No. 4, pp. 328-3	of a sample-a 36 (August 19	and-hold circuit," 194).
· 	AO	<u>14</u>	Janssen, J.M Fundamentals 1950).	.L., "A s," <i>Phi</i>	n Experimen lips Technica	tal 'Sti al Rev	roboscopic' Oscilloscope iew, Philips Research La	for Frequencies of boratories, Vol. 1	up to about 50 2, No. 2, pp. 5) Mc/s: I. :2-59 (August
	AP	<u>14</u>	Janssen, J.M Mc/s: II. Elect (September 1	rical B	i Michels, A. Build-Up," <i>Ph</i>	J., "Ar ilips T	Experimental 'Strobosc echnical Review, Philips	opic' Oscilloscope Research Labora	o for Frequenc tories, Vol. 12	ies up to about 50 , No. 3, pp. 73-82
	PΑ	<u>14</u>	Jondral, V.F. June 1996).	et al.,	"Doppler Pro	files f	or Communication Satelli	ites," <i>Fr</i> equenz, H	erausberger,	pp. 111-116 (May-
	AR	14	Kaleh, G.K., " Interference,"	A Fred 1995	quency Diver	sity S _l	oread Spectrum System EEE Communications So	for Communicatio	n in the Prese	ence of In-band
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Le	AA15	4,87	70,659	09/19	989	Oish	et al.	375	82	
Υ	AB15	4,87	71,987	10/19	989	Kawa	ase	332	100	
	AC15	4,88	85,587	12/19	989	Wieg	and et al.	42	14	
	AD15	4,88	85,756	12/19	389	Font	anes et al.	375	82	
	AE15	4,88	88,557	12/19	989	Puckette, IV et al.		329	341	
	AF15	4,89	90,302	12/19	989	Muil	vijk	375	80	
	AG15	4,89	93,316	01/19	90	Jano	et al.	375	44	
	AH15	4,89	93,341	01/19	990	Gehr	ing	381	7	
-	Al15	4,89	94,766	01/19	90	De A	gro	363	159	
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XAMINER NITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
1	AJ15	JP (6-237276		08/1994		JP	H04L	27/20	N
Y	AK15	JP (8-23359		01/1996		JP	H04L	27/20	N
	AL15 JP 47-2314						JP	_		Ye (Doc. AP53
	AM15	JP :	58-7903		01/1983		JP	H03C	1/02	Partia (Doc. AQ53
			OTH	D /In/	luding Auti	hor T	tie, Date, Pertinent Pag			
	AN	<u>15</u>	Karasawa, Y. Transactions 1614 (Novem	on An	tennas and l	diction Propag	Method for Troposphen ation, IEEE Antennas a	ic Scintillation on I nd Propagation Sc	Earth-Space Fociety, Vol. 36	Paths," <i>IEEE</i> , No. 11, pp. 1608
γ 	AO	<u>15</u>	Kirsten, J. an Cahners Publ	d Flem ishing	ning, J., "Und , Vol. 35, No	dersan . 13, p	npling reduces data-acqu p. 217-222, 224, 226-22	uisition costs for so 8 (June 21, 1990)	elect applicati	ons," <i>EDN</i> ,
	AP	<u>15</u>	Lam, W.K. et Identifier," Pro 2-4, 1993).	al., "N oceedi	leasurement ings Of the 1	of the 993 <i>IE</i>	Phase Noise Character EE International Freque	istics of an Unlock ncy Control Symp	ed Communi osium, IEEE,	cations Channel pp. 283-288 (Jun
	AQ	<u>15</u>	Lam, W.K. <i>et</i> 9, pp. 738-73	<i>al.</i> , "W 9 (Apri	videband sou il 28, 1994).	unding	of 11.6 Ghz transhorizo	n channel," <i>Electr</i>	onics Letters,	IEE, Vol. 30, No.
	AR	15	Larkin, K.G., 'pp. 101-102 ('Efficie Januai	ent demodula ry 18, 1996).	ator fo	bandpass sampled AM	signals," <i>Electron</i>	ics Letters, IE	E, Vol. 32, No. 2,
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41	AA16	4,896	,152	01/19	990	Tiem	ann	340		853	
l _a	AB16	4,902	,979	02/19	990	Puck	ette, IV	329		343	
l l	AC16	4,908	,579	03/19	990	Tawl	ik et al.	328		167	
	AD16	4,910	,752	03/19	90	Yest	er, Jr. <i>et al</i> .	375		75	
	AE16	4,914	,405	04/19	90	Well	3	331		25	
	AF16	4,920	,510	04/19	90	Send	lerowicz et al.	364		825	
	AG16	4,992	,452	05/19	90	Lars	en et al.	365		45	
	AH16	4,931	,921	06/19	90	Ande	erson	363		163	
L	Al16	4,944	,025	07/19	90	Gehr	ing et al.	455		207	
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	AJ16	JP 58	-133004	·	08/1983		JP	H03	ID	1/00	
	AK16	JP 60	-58705		04/1985		JP	H03	D	7/00	'
	AL16	JP 4-	123614		04/1992		JP	H03	K	19/0175	1
	AM16	JP 4-1	127601		04/1992		JP	H03	D	7/00	
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-	AN	<u>16</u>	Lau, W.H. et a IEEE Global 1 1988).	al., "Aı Teleco	nalysis of the mmunication	e Time	Variant Structure of Mic ference & Exhibition, IE	crowave Line EE, pp. 1707	-of-sigh '-1711 (t Multipath F November 2	Phenomena," 8 - December 1,
	АО	<u>16</u>	Lau, W.H. et a No. 20, pp. 10	e/., "Im)59-10	nproved Pror 60 (Septemi	ny Algo ber 24	orithm to Identify Multipa , 1987).	th Compone	nts," <i>Ele</i>	ectronics Le	tters, IEE, Vol. 2
	АР	<u>16</u>	Lesage, P. an <i>Transactions</i> 28, No. 1, pp.	on Ins	trumentation	and M	Dead-Time on the Estim Measurement, IEEE Inst	ation of the T rumentation (wo-San and Mea	nple Variand asurement S	e," <i>IEEE</i> ociety, Vol. IM-
	AQ	<u>16</u>	Speed Modula	ators,"	IEEE Trans	action	te GaAs MESFET's as on Microwave Theory 6, pp. 461–469 (June 19	and Techniqi	ed Low- ues, IEE	-Noise Ampl EE Microway	ifiers and High- e Theory and
	AR	16	Linnenbrink, T Science, IEEE	.E. et Nucle	al., "A One (ear and Plas	Gigasa ma So	ample Per Second Trans dences Society, Vol. NS	sient Records -26, No. 4, p	er," <i>IEEI</i> p. 4443-	E <i>Transactio</i> -4449 (Augu	ns on Nuclear st 1979).
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	AA17	4,955,079	09/1	990	Con	nerney et al.	455	325		
	AB17	4,965,467	10/1	990	Bilte	rijst	307	352		
	AC17	4,967,160	10/1	990	Quie	vy et al.	328	16		
	AD17	4,970,703	11/1	990	Haril	naran et al.	367	138	·	
	AE17	4,982,353	01/1	991	Ja∞	b et al.	364	724.1	0	
	AF17	4,984,077	01/1	991	Uchi	da	358	140		
	AG17	4,995,055	02/1	991	Weir	berger et al.	375	5		
	AH17	5,003,621	03/1	991	Gailu	is	455	209		
	Al17	5,005,169	04/1	991	Bron	der <i>et al.</i>	370	76		
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اله	AJ17	JP 5-175730		07/1993		JP	H03D	1/00		No
7	AK17	JP 5-175734		07/1993		JP	H03D	3/00		No
	AL17	JP 7-154344		06/1995		JP	H04B	14/06		No
	AM17	JP 7-307620		11/1995		JP	H03D	1/18		No
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-		Lo, P. et al.,	1, No. 8	3, pp. 987-10	105 (Ai	ded Analysis of Switched agust 1983). Control " IEE Colloquium		<u>-</u>		
	A0	17 (March 26,	980).							
	AP	17 Lo, P. et al., Third Interna	"Comp ational (utation of Ra Conference o	in Indi	uced Scintillations on Sate annas and Propagation (Id	ellite Down-Li CAP 83), pp. 1	nks at Micro I27-131 (Ap	wave Fr	equencies," , 1983).
	AQ	Lo, P.S.L.O. Letters, IEE	<i>el al.</i> , ' Vol. 20	'Observation), No. 7, pp. :	s of Ai 307-3(mplitude Scintillations on : 8 (March 29, 1984).	a Low-Elevati	on Earth-Sp	aœ Pati	n," Electronics
	AR	Madani, K. a Techniques,	nd Aith IEEE N	ison, C.S., "A Nicrowave Th	A 20 G	hz Microwave Sampler," and Techniques Society, \	IEEE Transac Vol. 40, No. 10	tions on Mid), pp. 1960-	rowave 1963 (O	Theory and clober 1992).
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1	AA18	5,00	6,810	04/19	91	Pope	scu	3	328	167	
-\-\-	AB18	5,01	0,585	04/19	91	Garc	ia	4	155	118	
	AC18	5,01	4,304	05/19	91	Nicol	lini et al.	3	379	399	
	AD18	5,01	5,963	05/19	91	Sutto	n	3	329	361	
	AE18	5,01	7,924	05/19	91	Guib	erteau <i>et al.</i>	3	342	195	
	AF18	5,02	0,149	05/19	991	Hem	mie	4	155	325	
	AG18	5,02	0,154	05/19	91	Zierh	ut	4	155	608	
	AH18	5,05	2,050	09/19	91	Collie	er et al.	4	155	296	
	Al1B	5,06	5,409	11/19	91	Hugh	es et al.	3	375	91	
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1.	AJ18	JP 5	5-66057		05/1980		JP .	(306K	7/10	
*	AK18	JP 6	3-65587		03/1988		JP	(306K	7/10	
	AL18	JP 6	3-153691		06/1988		JP	(306K	17/00	f
	AM18	EP 0	276 130 A28	43	07/1988		EP	'	H03D	7/00	N
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1	AN	<u>18</u>					monolithic integrated c . 592-594 (August 7, 19		oling head	i," Appl. Phys	. Lett., American
1	AO	<u>18</u>					Capacitor Building Blo nd Systems Society, Vo				
	АР	<u>18</u>	Tropospheric	Turbu	lence on Ea	rth-Sa	-based Prediction of Ar tellite Microwave Links, ety, Vol. 46, No. 10, pp	," IEEE Tra	ansaction	s on Antenna	e to Clear-Air s and Propagatio
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	AR	<u>18</u>	McQueen, J. Vol. XXIV, No	G., "TI b. 296,	ne Monitoring pp. 436-44	g of Hi	gh-Speed Waveforms,' ber 1952).	" Electronic	: Enginee	<i>ering</i> , Morgan	Brothers Limited
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	AA19	5,08	3,050	01/1	992	Vasi	le	30	7	529	
7	AB19	5,09	1,921	02/1	992	Mina	ımi	37	75	88	
	AC19	5,09	5,533	03/1	992	Lope	er et al.	. 4	55	245	
	AD19	5,09	5,536	03/1	992	Lope	er	4	55	324	
	AE19	5,11	1,152	05/1	992	Mak	ino	32	29	300	
	AF19	5,11	3,094	05/1	992	Grad	∞e et al.	30)7	529	
	AG19	5,11	3,129	05/1	992	Hugi	hes	32	23	316	
	AH19	5,12	2,765	06/1	992	Pata	ut	33	32	105	
3	AI19	5,12	4,592	06/1	992	Hagi	no	30)7	520	
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	AQ	<u>19</u>	Moulsley, T.J. of Electronic to	et al. and R	, "The efficie adio Enginee	ent acq	uisition and processing RE, Vol. 55, No. 3, pp. §	of propaga 7-103 (Mar	lion stat ch 1985	istics," <i>Journa</i> i).	al of the Institution
	AR	<u>19</u>	Ndzi, D. et al. Colloquium or (December 16	n Radi	o Communic	istical cetions	Characterization of an C at Microwave and Milli	Over-the-Se metre Wave	a Exper	imental Trans Incles, IEE, p	shorizon Link," <i>IE</i> p. 1/1-1/6
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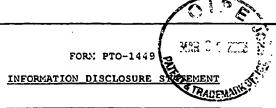
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1	AA21	5,212,827	05/1	993	Mesz	ko et al.	455	219	
1	AB21	5,214,787	05/1	993	Kark	ota, Jr.	455	3.2	
1	AC21	5,220,583	06/1	993	Solo	non	375	82	<u>.</u>
	AD21	5,220,680	06/1	993	Lee		455	102	
	AE21	5,222,144	06/1	993	Whik	ehart	381	15	
	AF21	5,230,097	07/1	993	Cumi	e et al.	455	226.1	
	AG21	5,239,686	08/1	993	Dow	ney	455	78	
	AH21	5,241,561	08/1	993	Bam	ard	375	1	
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	AQ	21 Poulton, K pp. 962-96	. <i>et al.</i> , "A 69 (Decen	. 1-Ghz 6-bit nber 1987).	ADC :	System," <i>IEEE Journal o</i>	f Solid-State Circu	iits, IEEE, Vo	I. SC-22, No. 6,
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. 2	AA23	5,293,398	03/1	994	Har	nao <i>el al</i> .	37	5	1	
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	AC23	5,307,517	04/1	994	Ric	n	45	5	306	
	AD23	5,315,583	05/1	994	Mu	phy et al.	370)	18	
	AE23	5,321,852	06/1	994	Sec	ng	45	5	182.1	
	AF23	5,325,204	06/1	994	Sca	пра	34	3	607	
<u> </u>	AG23	5,337,014	08/1	994	Naj	e et al.	324	1	613	
	AH23	5,339,054	08/1	994	Tag	uchi	333	2	100	
	Al23	5,339,459	08/1	994	Sch	iltz et al.	45	5	333	
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12	AA24	5,3	55,114	10/1	994	Sutte	erlin <i>et al.</i>	340		310 A	
P	AB24	5,3	61,408	11/1	994	Wate	nabe et al.	45	5	324	
j	AC24	5,3	69,800	11/1	994	Taka	gi et al.	45	5	59	
	AD24	5,3	75,146	12/1	994	Chal	mers	375	5	103	
	AE24	5,3	79,040	01/19	995	Mizo	moto et al.	34		143	
	AF24	5,3	79,141	01/1	995	Thor	npson <i>et al</i> .	359		125	
	AG24	5,3	88,063	02/19	995		tori et al.	364	\$	724.17	
	AH24	5,3	90,364	02/19	995	Web	ster et al.	455		52.3	
1	Ai24	5,40	00,084	03/19	95	Scan		348		624	
					FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUMI	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ24										Yes No
	AK24										Yes
· · · · · · · · · · · · · · · · · ·	AL24										Yes No
	AM24										Yes
		•	OTHE	R (Inc	luding Auti	nor. Ti	tle, Date, Pertinent Page	e etc l			<u>No</u>
	AN	<u>24</u>		e. "Pa	rkervision. In	ic. Anr	nounces Joint Product De		s With '	VTEL," Lippe	rt/Heilshom and
<i>r</i>	AO .	<u>24</u>	Press Release Associates, 3	e, "Pai Pages	rkervision, In s (April 28, 1	ıc. Anr 995).	ounces First Quarter Fina	ancial Resu	ults," Li	ppert/Heilsho	om and
	AP	<u>24</u>	Press Release Manufacturing	e, "Par) Head	tkervision Wi Iquarters, 1 I	ins To Page (p 100 Product Districts' C June 29, 1995).	hoice Awa	rd," Par	kervision Ma	rketing and
	AQ ;	<u>24</u>	Press Release Manufacturing	e, "Par Head	kervision Na quarters, 1 f	itional Page (Sales Manager Next Pres July 6, 1995).	sident of U	SDLA,*	Parkervision	Marketing and
	AR ;	24	Press Release Page (July 21,	e, "Par 1995	kervision Gr).	anted	New Patent," Parkervision	n Marketing	and M	lanufacturing	Headquarters, 1

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ATTY, DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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				U.S.	PATEN	T DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
1	AA25	5,404,127	04/1	995	Lee	et al.	340	310.02	
<u></u>	AB25	5,410,541	04/1	995	Hotte)	370	76	
	AC25	5,410,743	04/1	995	Seel	/ et al.	455	326	
	AD25	5,412,352	05/1	995	Grah	am	332	103	
	AE25	5,416,803	05/1	995	Jane	T_	375	324	
	AF25	5,422,913	06/1	995	Wilki	nson	375	347	
	AG25	5,423,082	06/1	995	Cyga	n et al.	455	126	
	AH25	5,428,638	06/1	995	Cioff	et al.	375	224	
J	Al25	5,428,640	06/1	995	Town	ley	375	257	
				FOREIC	GN PAT	ENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CLASS	SUB-	TRANSLATION

AJ25 Yes No AK25 Yes No AL25 Yes No AM25 Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision AN <u>25</u> Marketing and Manufacturing Headquarters, 2 Pages (July 31, 1995). Press Release, "Parkervision, Inc. Expands Its Cameraman System II Product Line," Parkervision Marketing AO <u>25</u> and Manufacturing Headquarters, 2 Pages (September 22, 1995). Press Release, "Parkervision Announces New Camera Control Technology," Parkervision Marketing and AP <u>25</u> Manufacturing Headquarters, 2 Pages (October 25, 1995). Press Release, "Parkervision, Inc. Announces Completion of VTEL/Parkervision Joint Product Line," AQ 25 Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995). Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision AR <u>25</u> Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).

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FORM PTO-144 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0140005

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		·		U.S. P	ATEN	T DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
2	AA26	5,434,546	07/1	995	Palm	er	332	151	
A.	AB26	5,438,692	08/1	995	Mohi	ndra	455	324	
	AC26	5,444,415	08/1	995	Dent	et al.	329	302	
	AD26	5,444,416	08/1	995	Ishik	awa et al.	329	341	
	AE26	5,444,865	08/1	995	Heck	et al.	455	86	
	AF26	5,446,421	08/1	995	Kech	kaylo	332	100	
	AG26	5,446,422	08/1	995	Matti	la et al.	332	103	
	AH26	5,448,602	09/1	995	Ohm	ori et al.	375	347	
J	Al26	5,451,899	09/1	995	Lawte	on	329	302	
				FOREIGN	I PATE	NT DOCUMENTS			·- -
XAMINER IITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ26								Y
	AK26								Ye
	AL26								Y
	AM26								Y
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+	AN	26 Press Rele Parkervisio	ase, "Pa n Marke	rkervision's (ting and Mar	Camen	aman Personal Locator ring Headquarters, 2 Pa	Camera System Vages (November 1	Vins Telecon , 1995).	XV Award,"
	AO	26 Press Rele Marketing a	ase, "Pa Ind Man	rkervision, Ir ufacturing He	nc. Ann eadqua	ounces Purchase Comr irters, 1 Page (February	mitment From VT6 26, 1996).	EL Corporation	n," Parkervision
	АР	26 Press Releand Manufa	ase, "Pa acturing (rkerVision, Ir Headquarter	nc. Anr s, 2 Pa	nounces Fourth Quarter iges (February 27, 1996	and Year End Re	sults," Parker	vision Marketing
	ΑQ	26 Press Releadquarte	ise, "Pa rs, 2 Pa	rkerVision, Ir ges (March 7	nc. Exp 7, 1996	pands its Product Line,"	Parkervision Mark	eting and Mai	nufacturing
	AR	Press Relea	ise, "Pa cturing l	rkerVision Fi Headquarters	les Pat	ients for its Research of ge (March 28, 1996).	Wireless Technol	ogy," Parkerv	ision Marketing
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	IE .	CL	ASS	SUB- CLASS	FILING DATE
	AA27	5,4	54,007	09/1	995	Dutta	3	375	5	322	
<u> </u>	AB27	5,4	54,009	09/1	995	Fruit	et al.	372	2	202	
	AC27	5,4	63,356	10/1	995	Palm	ner	332	2	117	
<u> </u>	AD27	5,4	63,357	10/1	995	Hob	den	332	2	151	<u> </u>
	AE27	1	65,071	11/1		Koba	yashi <i>et al</i> .	329)	315	
	AF27	_	65,410	11/1		Hibe	n et al.	455	5	266	
	AG27	5,4	65,415	11/1	995	Bien		455	5	326	
	AH27		71,162	11/1	995	McE	wan	327	7	92	
	Al27	5,47	79,120	12/1	995	McE	wan	327	<u></u>	91	<u> </u>
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	AM27										Ye
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N.	AN	<u>27</u>	Press Releas Parkervision I	e, "Pa Marke	rkervision, In ting and Man	nc. Ani nufacti	nounces First Significant S iring Headquarters, 2 page	iale of Its (es (April 12	Camera 2, 1996	nman® Three).	-Chip System,"
	AO	<u>27</u>	Press Releas Marketing and	e, "Pa I Man	rkervision, In ufacturing He	nc. Intreadqua	oduces New Product Line arters, 2 Pages (April 15, 1	For Studio 1996).	Produ	iction Market,	" Parkervision
	АР	<u>27</u>	Press Release and Manufact	e, "Pa uring l	rkervision, In Headquarters	ic. Anr s, 1 Pa	nounces Private Placemen age (April 15, 1996).	t of 800,00	00 Shai	res," Parkervi	ision Marketing
	AQ	<u>27</u>	Press Release Manufacturing	e, "Pai i Head	rkervision, In Iquarters, 3 F	c. Anr Pages	nounces First Quarter Fina (April 30, 1996).	ncial Resu	ults," Pa	arkervision M	arketing and
	AR	<u>27</u>	Press Release Headquarters	e, "Pai , 2 Pai	rkerVision's I ges (June 5,	New S 1996)	tudio Product Wins Award	," Parkerv	ision M	arketing and	Manufacturing
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ITIAL			CUMENT MBER	DAT		NAM		CL	ASS	SUB- CLASS	FILING DATE
	AA28	5,47	79,447	12/19	995	Chov	v et al.	375	5	260	
-	AB28	5,48	B3,193	01/19	996	Kenr	iedy et al.	329)	300	
1	AC28	5,48	83,549	01/19	996	Weir	berg et al.	375	5	200	
	AD28	5,40	83,691	01/19	996	Heck	et al.	455		234.2	
	AE28	5,49	90,173	02/19	96	Whik	ehart et al.	375	;	316	
	AF28	5,49	93,581	02/19	96	Your	g et al.	375	;	350	
	AG28	5,49	93,721	02/19	996	Reis		455	5	339	
	AH28	5,49	95,200	02/19	996	Kwai	n et al.	327	,	554	
	Al28	5,49	95,202	02/19	96	Hsu		327	,	113	
					FOREIGN	V PATI	ENT DOCUMENTS			<u>*</u> ,	
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	AK28	1									Ye
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4	AM28	-								1	<u> </u>
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			ОТН	ER (Inc	luding Aut	hor, T	tle, Date, Pertinent Pag	ges, etc.)			· -
وا	AN	<u>28</u>	Press Releas Marketing an	se, "Pa d Man	rkervision, Ir ufacturing H	nc. Anı eadqua	nounces Second Quarter arters, 3 Pages (August	r and Six Mo 1, 1996).	onths Fi	nancial Resu	ults," Parkervision
1	AO	<u>28</u>	Press Releas Marketing an	se, "Pa d Mani	rkervision, Ir ufacturing H	nc. Anr eadqua	nounces Third Quarter a arters, 2 Pages (October	nd Nine Mor 29, 1996).	nths Fin	nancial Resul	ts," Parkervision
	AP	<u>28</u>	Press Releas Manufacturin	se, "Pic g Head	tureTel and Iquarters, 2	Parke Pages	Vision Sign Reseller Ag (October 30, 1996).	reement," Pa	arkervis	sion Marketin	g and
	AQ	<u>28</u>	Press Releas Pages (Janua	ie, "CL ary 20,	l and Parker 1997).	Vision	Bring Enhanced Ease-o	if-Use to Vid	eoconf	erencing," Cl	_l/Parkervision, 2
	AR	28	Press Releas	ie, "Pai turing I	rkervision, Ir leadquarter	nc. Anr s, 3 Pa	nounces Fourth Quarter ages (February 27, 1997	and Year En	d Resu	ılts," Parkervi	ision Marketing
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APPLICATION NO. 09/770,675

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EXAMINER NITIAL		DOCUMENT NUMBER	DAT	E	NAME		CLASS	SUB- CLASS	FILING DATE
1	AA29	5,495,500	02/1	996	Jovanovi	ch et al.	375	206	
W-	AB29	5,499,267	03/1	996	Ohe et al.		375	206	
1	AC29	5,500,758	03/1	996	Thompso	n et al.	359	189	
	AD29	5,517,688	05/1	996	Fajen et a	a <i>l</i>	455	333	
	AE29	5,519,890	05/1	996	Pinckley		455	307	
	AF29	5,523,719	06/1	996	Longo et	al.	327	557	
	AG29	5,523,726	06/1	996	Kroeger e	et al.	332	103	
	AH29	5,523,760	06/1	996	McEwan		342	89	
سك	Al29	5,539,770	07/1	996	Ishigaki		375	206	
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·····	AJ29								Y
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.ال	AM29	29 Press Rele	ase, "Pa	rkervision, l	nc. Announ		iges, etc.) inancial Results,"	Parkervision N	<u> </u>
ph.		29 Press Rele Manufactur	ase, "Pa ing Hea	rkervision, li dquarters, 3	nc. Announ Pages (Api	ces First Quarter F nil 29, 1997).		1,1714,147	Marketing and
	AN	29 Press Rele Manufactur 29 Press Rele 1997).	ase, "Pa ing Hea ase, "NE	rkervision, Indiguarters, 3	nc. Announ Pages (Apr ervision Ma	ces First Quarter F ril 29, 1997). ske Distance Learn	inancial Results,"	merica, 2 Pag	Marketing and
1	AN AO AP	29 Press Relension Press Relen	ase, "Pa ing Head ase, "NE ase, "Pa n Marke	rkervision, Indquarters, 3 EC and Parker rkervision Siting and Mar	nc. Announ Pages (Apr ervision Ma upplies JPL nufacturing	ces First Quarter F ril 29, 1997). lke Distance Learn with Robotic Cam Headquarters, 2 p	inancial Results," ing Closer," NEC A eras, Cameraman ages (July 8, 1997	merica, 2 Pag Shot Director	Marketing and ges (June 18,

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ATTY. DOCKET NO. 1744.0140005 APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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EXAMINER NITIAL		DOCUMENT NUMBER	DAT		NAM		CLASS	SUB- CLASS	FILING DATE
<u> </u>	AA30	5,555,453	09/1	996	Kajin	noto et al.	455	266	
PC-	AB30	5,557,641	09/1	996	Weir	berg	375	295	
	AC30	5,557,642	09/1	996	Willia	ams	375	316	
	AD30	5,579,341	11/1	996	Smit	h et al.	375	267	
	AE30	5,579,347	11/1	996	Linda	uist <i>et al</i> .	375	346	
	AF30	5,584,068	12/1	996	Mohi	ndra	455	324	
	AG30	5,592,131	01/1	997	Labr	eche et al.	332	103	
	AH30	5,602,847	02/1	997	Paga	no et al.	370	484	
V	Al30	5,602,868	02/1	997	Wilse	on	375	219	
				FOREIGN	PAT	ENT DOCUMENTS			
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	AJ30 AK30				<u>-</u>				Y
	AL30	ļ							Y
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	AM30			<u></u>					Y
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1	AN	30 Press Relea	ise, "Pa cturing	rkervision, Ir Headquarter	nc. Ani rs, 2 Pa	nounces Private Placem ages (September 8, 199	ment of 990,000 Sha 17).	ares," Parken	vision Marketing
V	AO	30 Press Relea	ise, "Wa ng Head	al-Mart Choo dquarters, 2	ses Pages	arkervision for Broadcas (October 24, 1997).	st Production," Parl	kervision Mar	keting and
	АР	30 Press Relea	ise, "Pa ng Head	rkervision, Ir dquarters, 3	nc. Anı Pages	nounces Third Quarter F (October 30, 1997).	Financial Results,"	Parkervision	Marketing and
	AQ	30 Press Relea	ise, "Pa nd Man	rkerVision A ufacturing Ho	nnoun	ces Breakthrough in Wi arters, 3 Pages (Decem	reless Radio Frequ ber 10, 1997).	ency Techno	logy," Parkervisi
	AR	Press Relea 30 President, L Pages (Jan	icensing	- Wireless	nc. Anr Techn	nounces the Appointmer ologies," Parkervision N	nt of Joseph F. Sko larketing and Manu	ovron to the Puracturing Hea	osition of Vice adquarters, 2
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ATTY. DOCKET NO. 1744.0140005 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE FILING DATE January 29, 2001 HADEMAN U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT DATE NAME INITIAL NUMBER **AA31** 02/1997 Kim et al. 5,604,732 **AB31** 5,608,531 03/1997 Honda et al. AC31 5,610,946 03/1997 Tanaka et el. Nicollini AD31 RE 35,494 04/1997 AE31 04/1997 Mimura et al. 5.617.451 AF31 5,619,538 04/1997 Sempel et al. 04/1997 AG31 5,621,455 Rogers et al. **AH31** 05/1997 Bella et al. 5,630,227 Al31 5,640,415 06/1997 Pandula FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL **DOCUMENT NUMBER** DATE COUNTRY **AJ31**

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CLASS

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CLASS

CLASS SUB-TRANSLATION CLASS Yes No **AK31** Yes No AL31 Yes No **AM31** Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Press Release, "Parkervision Announces Existing Agreement with IBM Terminates -- Company Continues with

AN <u>31</u> Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998). Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and AO <u>31</u> Manufacturing Headquarters, 2 Pages (March 3, 1998). Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision AP <u>31</u> Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998). Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and AQ 31 Manufacturing Headquarters, 2 Pages (April 15, 1998). Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and AR 31 Manufacturing Headquarters, 3 Pages (May 4, 1998).

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

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0	AA32	5,640,424	06/1	997	Ban	avong et al.	37	5	316	
h	AB32	5,640,428	06/1	997	Abe	et al.	37	5	334	
	AC32	5,640,698	06/1	997	She	n et al.	45	5	323	
	AD32	5,648,985	07/1	997	Bjer	ede <i>et al</i> .	375	5	219	
	AE32	5,650,785	07/1	997	Rod	al	342	2	357	
	AF32	5,661,424	08/1	997	Tang)	327	7	105	
	AG32	5,663,878	09/1	997	Wall	ker	363	3	159	
	AH32	5,663,986	09/1	997	Strif	fler	375	5	260	
	A132	5,668,836	09/1	997	Smit	h et al.	375	5	316	
				FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER NITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ32									Yes No
	AK32									Yes No
	AL32									Yes No
	AM32									Yes
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17	AN	32 Press Rele Marketing a	ase, "Pa and Man	rkervision 'Di ufacturing He	IREC eadqu	T2DATA' Introduced in Re arters, 3 Pages (July 9, 19	esponse to 998).	Market	Demand," P	arkervision
γ –	AO	32 Press Rele Headquarte	ase, "Pa ers, 2 Pa	nkervision Ex ges (July 29,	pand: 1998	s Senior Management Tea)).	am," Parke	rvision	Marketing an	d Manufacturing
	АР	32 Press Rele Marketing a	ase, "Pa ind Man	rkervision Anufacturing He	noun	ces Second Quarter and Sarters, 4 Pages (July 30,	Six Month F 1998).	inancia	al Results," P	arkervision
	PΑ	32 Press Rele Marketing a	ase, "Pa ind Man	rkervision Anuufacturing He	noun	ces Third Quarter and Nin arters, 3 Pages (October)	e Month Fi 30, 1998).	nancial	Results," Pa	rkervision
	AR	32 Press Relea	ase, "Qu ind Man	estar Infocon ufacturing He	nm, lı adqu	nc. Invests \$5 Million in Pa arters, 3 Pages (Decembe	arkervision er 2, 1998).	Comm	on Stock," Pa	arkervision
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EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	IE	CL	ASS	SUB- CLASS	FILING DATE
• A	AA33	5,680,078	10/1	997	Ariie		33	2	178	
P	AB33	5,680,418	10/1	997	Crof	t et al.	37	5	346	
	AC33	5,689,413	11/1	997	Jara	millo <i>et al</i> .	36	3	146	
	AD33	5,699,006	12/1	997	Zele	et al.	32	7	341	
	AE33	5,705,955	01/1	998	Free	burg et al.	33	<u> </u>	14	
	AF33	5,710,998	01/1	998	Opa	3	45		324	
	AG33	5,714,910	02/1			zen <i>et al.</i>	33	<u> </u>	3	
	AH33	5,715,281	02/1		Bly e		375		344	-
	Al33	5,721,514	02/1			kett et al.	33	<u> </u>	3	
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7	AN	33 Press Rele Headquarte	ase, "Pa ers, 2 Pa	rkervision Ad ages (March !	dds Tv 5, 199	vo New Directors," Parker 9).	rvision Mar	keting a	and Manufac	turing
V C	AO	33 Press Rele Marketing a	ase, "Pa Ind Man	irkervision Ar ufacturing He	noun	ces Fourth Quarter and Y arters, 3 Pages (March 5,	ear End Fir 1999).	nancial	Results," Pa	rkervision
	AP	33 Press Rele Marketing a	ase, "Jo Ind Man	int Marketing ufacturing He	Agree eadqu	ement Offers New Automarters, 2 Pages (April 13,	ated Produ 1999).	ction S	olution," Park	ervision
	AQ	33 "Project CC Vol. LIV, No	ST 205: o. 3, pp.	: Scintillation: 209-211 (Ma	s in Ea	arth-satellite links," <i>Alte Fi</i> e, 1985).	requenza: \$	Scientif	ic Review in	Electronics, AEI,
- E	AR	33 Razavi, B.,	RF Micr	oelectronics,	Prent	ice-Hall, pp. 147-149 (19	98).			
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ATTY. DOCKET NO. 1744.0140005

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAN	lE	CL	ASS	SUB- CLASS	FILING DATE
	AA34	5,72	24,002	03/1	998	Hulid	*	329	3	361	
	AB34	5,72	24,653	03/1	998	Bake	er et al.	455	5	296	
	AC34	5,72	29,577	03/1	998	Che	1	375	5	334	
	AD34	5,72	29,829	03/19	998	Talw	ar et al.	455	<u> </u>	63	
·	AE34	_	32,333	03/19	998	Cox	et al.	455	5	126	<u> </u>
	AF34		36,895	04/19		Yu e		327		554	<u> </u>
	AG34		37,035	04/19		Rotz		348	3	725	ļ
	AH34	1	42,189	04/19			ida et al.	327		113	
	Al34	5,74	48,683	05/19		_	h <i>et al.</i>	375	<u> </u>	347	<u> </u>
		Т.			FOREIGN	PAT	ENT DOCUMENTS				,
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
	AJ34										Yes No
	AK34							*			Yes No
	AL34				_						Yes
	AM34										Yes
		4	OTHE	R (Inc	luding Auth	or. T	tie, Date, Pertinent Page	s. etc.)		1	1
-	AN	<u>34</u>	Reeves, R.J.I Brothers Limit	D., "Th led, Vo	e Recording ol. 31, No. 37	and ('3, pp	Collocation of Waveforms (130-137 (March 1959).	(Part 1)," <i>E</i>	Jectron	ic Engineerin	g, Morgan
· ·	AO	<u>34</u>	Reeves, R.J.I Brothers Limit	O., "Th led, Vo	e Recording ol. 31, No. 37	and ('4, pp.	Collocation of Waveforms (204-212 (April 1959).	(Part 2)," <i>E</i>	dectron	ic Engineerin	g, Morgan
	AP	<u>34</u>	Rein, H.M. an Transistors,"	d Zahi Electro	n, M., "Subna onics Letters,	nose IEE,	cond-Pulse Generator witl Vol. 11, No. 1, pp. 21-23 (n Variable January 9,	Pulsew 1975).	idth Using Av	/alanche
	AQ	<u>34</u>	Riad, S.M. an	d Nahi Interna	man, N.S., "N Nicrov	Model vave	ng of the Feed-through W Symposium Digest, IEEE,	ideband (C pp. 267-26	C to 12	2.4 Ghz) San 27-29, 1970	npling-Head," 3).
	AR	<u>34</u>	Rizzoli, V. et a Microwave Th	al., "Co eory a	omputer-Aide and Techniqu	d Noi es, IE	se Analysis of MESFET an EE, Vol. 37, No. 9, pp. 140	nd HEMT N 01-1410 (S	Aixers," Septemb	IEEE Transper 1989).	actions on
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EXAMINER INITIAL		DOCUMEN NUMBER	T DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
10	AA35	RE 35,829	06/1	998	Sand	lerford, Jr.	375	200	
7	AB35	5,760,645	06/1	998	Com	te et al.	329	304	
	AC35	5,764,087	06/1	998	Clark	(327	105	
	AD35	5,767,726	06/1	998	Wan	9	327	356	
	AE35	5,768,118	06/1	998	Faull	c et al.	363	72	
	AF35	5,771,442	06/1	998	Wan	g et al.	455	93	1
	AG35	5,777,692	07/1	998	Ghos	ih	348	725	
	AH35	5,777,771	07/1	998	Smiti	h	359	180	1
V	Al35	5,786,844	07/1	998	Roge	ers et al.	348	6	
				FOREIGN	N PATI	ENT DOCUMENTS			
XAMINER NITIAL		DOCUMEN	T NUMBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ35								Y
	AK35								Y
	AL35								Y
	AM35								Y
			OTHER (In	cluding Auti	hor, Ti	tie, Date, Pertinent Pa	ges, etc.)		
	AN	35 Rowe Jerse	H.E., Signals	s <i>and Noise i</i> or example, C	<i>in Com</i> Chapte	nmunication Systems, D. r V, Pulse Modulation S	. Van Nostrand Cor ystems (1965).	mpany, Inc., I	Princeton, New
γ 1	AO	35 Rücke Deper	r, F. and Dint dence," <i>Ele</i> c	elmann, F., * Ironics Letter	'Effect rs, IEE	of Antenna Size on OT\$, Vol. 19, No. 24, pp. 10	S Signal Scintillatio 32-1034 (Novembe	ns and Their er 24, 1983).	Seasonal
	АР	35 Russe	il, R. and Hoa edings, Micro	are, L., "Millin wave Exhibit	neter V	Wave Phase Locked Os nd Publishers, pp. 238-2	cillators," <i>Military N</i> 142 (October 25-27	licrowaves 7 , 1978).	8 Conference
	AQ	35 Comm	L.P., "A DSP unications," 1 lia, pp. 218-2	he institution	n of Er	a Robust Flexible Rece agineers Australia Comm 1990).	iver/Demultiplexer	for Broadcas ence, Instituti	t Data Satellite on of Engineers,
	AR	Salous /, IEE,	, S., "IF digita Vol. 139, No.	al generation 3, pp. 281-2	of FM 288 (Ju	CW waveforms for wide ne 1992).	band channel char	acterization,"	IEE Proceeding
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CL	ASS	SUB- CLASS	FILING DATE
	AA36	5,7	93,801	08/1	998	Ferti	ner	375	5	219	
<u> </u>	AB36	5,7	93,818	08/1	998	Clay	don <i>et al</i> .	375	5	326	
	AC36	5,8	02,463	09/19	998	Zuck	erman	455	5	208	
	AD36	5,8	09,060	09/19	998	Cafa	rella et al.	375	5	206	
	AE36	5,8	18,582	10/1	998	Fem	andez et al.	356	5	318	
	AF36	5,8	25,254	10/1	998	Lee		331	l	25	
	AG36	5,8	34,985	11/19	998	Sund	legård	332	2	100	
	AH36	5,8	64,754	01/19	999	Hotte	<u> </u>	455	<u> </u>	280	
	Al36	5,8	81,375	03/19	999	Bono	ls	455	<u> </u>	118	
		-			FOREIGN	PAT	ENT DOCUMENTS				
EXAMINER NITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CIV	ASS	SUB- CLASS	TRANSLATION
·	AJ36	<u> </u>									Ye N
	AK36	_								<u> </u>	Ye:
	AL36				4						Ye:
	AM36										Yes
	1 1	_	OTHE	R (Inc	cluding Aut	hor, T	tle, Date, Pertinent Page	es, etc.)			
∇	AN	<u>36</u>	"Sampling Lo	ops Lo	ock Sources	to 23 (Ghz," <i>Microwaves & RF</i> , F	Penton Pub	lishing	, p. 212 (Sep	tember 1990).
N-	AO	<u>36</u>	Sasikumar, M Vol. 71, No. 8	. <i>et al.</i> , pp. 1	., "Active Co 008-1009 (A	mpens lugust	sation in the Switched-Cap 1983).	pacitor Biqu	uad," <i>Pi</i>	roceedings c	f the IEEE, IEEE,
	АР	<u>36</u>	Saul, P.H., "A ESSCIRC 79,	GaAs IEE, į	MESFET S	ample 9).	and Hold Switch," Fifth Ed	uropean Se	olid Sta	te Circuits C	onference-
	AQ	<u>36</u>	Shen, D.H. et State Circuits	al., "A IEEE	900-MHZ R Solid-State	RF From	nt-End with Integrated Dis is Council, Vol. 31, No. 12	crete-Time	Filterir 1954 (ng," <i>IEEE Jo</i> December 1	umal of Solid- 996).
	AR	<u>36</u>	Shen, X.D. an path," Radio S	d Vila Scienc	r, E., "Anoma e, American	alous t Geopl	ranshorizon propagation a nysical Union, Vol. 30, No.	and meteor . 5, pp. 146	ologica 67-1479	il processes 9 (Septembe	of a multilink r-October 1995).
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EXAMINER NITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA37	5,892,380	04/1	999	Quis	t	327	172	
V	AB37	5,894,239	04/1	999	Bona	occio et al.	327	176	
	AC37	5,896,562	04/1	999	Hein	onen	455	76	
	AD37	5,900,747	05/1	999	Brau	ns	327	9	
	AE37	5,901,054	05/19	999	Leu	et al.	363	41	
	AF37	5,901,187	05/1	999	linum	na	375	347	
	AG37	5,901,344	05/19	999	Opas		455	76	
	AH37	5,901,347	05/1	999	Char	nbers et al.	455	234.1	
	Al37	5,901,348	05/1	999	Bang	et al.	455	254	
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XAMINER IITIAL		DOCUMENT NU	MBER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ37								Y
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	AL37								Y
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	AN	Shen, X. ar	d Tawfil	k, A.N., "Dyn	amic E	tile, Date, Pertinent Pa Behaviour of Radio Char , Vol. 29, No. 17, pp. 15	nnels Due to Trans	-Horizon Prop 9, 1993).	
	AN	37 Shen, X. ar Mechanism Shen, X. et of the parat	d Tawfil s," <i>Elec</i> al., "Mo	k, A.N., "Dyn tronics Lette deling Enhar	namic E	Behaviour of Radio Cha	nnels Due to Trans- 82-1583 (August 1 Troposcattering on	9, 1993). a Transhoriz	pagation
	AN	37 Shen, X. ar Mechanism Shen, X. et of the paratelectromage 37 Shen, X. an	d Tawfii s," Elect al., "Mo polic Equ petic wa	k, A.N., "Dyn tronics Lette deling Enhar vation and R ve and acou	namic Ers, IEE	Behaviour of Radio Chai , Vol. 29, No. 17, pp. 15 pherical Diffraction and cing Methods." <i>IEE Coll</i>	Troposcattering or oquium on Commo. 4/1-4/7 (March 8,	9, 1993). a Transhoriz n modeling te 1996).	pagation con Path with aid schniques for
	AN AO	37 Shen, X. at Mechanism 38 Shen, X. at of the parate electromage 39 Shen, X. at Electronics	d Tawfil s," Elec al., "Mo oolic Equ netic wa d Vilar, Letters,	deling Enhandation and acourties. E., "Path los IEE, Vol. 32	nced Say Traisstic was static, No. 3	Behaviour of Radio Chai , Vol. 29, No. 17, pp. 15 pherical Diffraction and cing Methods," <i>IEE Coll</i> eve propagation, IEE, pp.	Troposcattering or oquium on Commo. 4/1-4/7 (March 8, 1, 1996).	9, 1993). a Transhoriz n modeling te 1996). agation over	con Path with aid schniques for

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	AA38	5,901,349	05/1	999	Gue	naud et al.	455	302	
The	AB38	5,903,178	05/1	999	Miya	tsuji e <i>t al</i> .	327	308	
	AC38	5,903,187	05/1	999	Clav	erie et al.	329	342	
	AD38	5,903,196	05/1	999	Salv	et al.	331	16	
	AE38	5,903,421	05/1	999	Furu	tani e <i>t al</i> .	361	58	
	AF38	5,903,553	05/1	999	Saka	moto et al.	370	338	
	AG38	5,903,595	05/1	999	Suzi	ki	375	207	
	AH38	5,903,609	05/1	999	Kool	et al.	375	261	
	AI38	5,903,827	05/1	999	Kenr	an et al.	455	326	
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	AJ38				_				Y
	AK38					·			Ye N
	AL38							,	Ye
	AM38								Ye N
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	AN	38 Stafford, Vol. SC-	K.R. <i>et al.</i> 9, No. 6, p	, "A Complet p. 381-387 (I	te Mon Decem	olithic Sample/Hold Am _i ber 1974).	plifier," <i>IEEE Jour</i> n	nal of Solid-Sta	ate Circuits, IEEE
<u> </u>	AO	38 Staruk, V 211, 213	V. Jr. e <i>t al.</i> , 215, 217,	, "Pushing H 220 and 222	IF Data 2 (May	ı Rates," <i>Defense Electi</i> 1985).	ronics, EW Comm	unications, Vo	i. 17, No. 5, pp.
	АР	38 Stephens pp. 106-1	son, A.G., 110 (March	"Digitizing m 127, 1972).	ultiple	RF signals requires an o	optimum sampling	rate," <i>Electro</i>	nics, McGraw-Hil
	AQ	38 Sugarma Americar	n, R., "Sar Institute d	mpling Oscillo of Physics, V	oscope ol. 28,	e for Statistically Varying No. 11, pp. 933-938 (No	Pulses," <i>The Rec</i> ovember 1957).	riew of Scienti	fic Instruments,
L	AR	38 Sylvain, I Union, Vo	И., "Experi ol. 24, No.	mental probi 2, pp. 160-1	ng of r 78 (Ma	nultipath microwave cha rch-April 1989).	innels," <i>Radio Sci</i>	элсе, America	n Geophysical
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- 14	AA39	5,90	3,854	05/19	999	Abe	et al.	455	5	575	
VC-	AB39	5,90	5,449	05/19	999	Tsub	ouchi et al.	340)	925.69	
	AC39	5,90	7,149	05/19	999	Marc	kini	235	5	487	
1	AD39	5,90	7,197	05/19	999	Faul	k	307	7	119	
	AE39	5,91	1,116	06/19	999	Noss	witz	455	5	83	
	AF39	5,91	1,123	06/19	999	Shaf	fer et al.	455	5	554	
	AG39	5,91	4,622	06/19	999	Inou	9	327	7	172	
	AH39	5,92	0,199	07/19	999	Sauc	er	324	1	678	
	Al39	5,94	3,370	08/19	999	Smit	h	375	5	334	<u> </u>
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	AK39										Ye N
	AL39										Ye
	AM39										Ye
	<u> </u>	1	OTU	D //-		T	l itle, Date, Pertinent Pag				N
· pl	AN ,	<u>39</u>	(1984). Tan, M.A., "B Systems- I: F	iquadr	atic Transco		Detector Operable To Ka	Filters." <i>IEI</i>	EË Tra	nsactions on	Circuits and
	AP	<u>39</u>	275 (April 199 Tanaka, K. et Electronics, II	al., "S	Single Chip Nonsumer Ele	fultisy actroni	stem AM Stereo Decoder cs Society, Vol. CE-32, N	IC," <i>IEEE</i> lo. 3, pp. 48	<i>Transa</i> 82-496	ctions on Col (August 1986	nsumer 3).
	AQ	<u>39</u>	Tawfik, A.N., Electronics Le	"Ampli etters,	itude, Durati IEE, Vol. 28	on and	Predictability of Long Ho pp. 571-572 (March 12,	op Trans-Ho 1992).	orizon)	K-band Signa	ils Over the Sea,"
	AR	<u>39</u>	Tawfik, A.N. a Meteorologica of the IEE, pp	al Pare	meters," Eig	inth In	of Transhorizon Signal L ternational Conference or ril 2, 1993).	evel Streng n Antennas	gth with	Localized Si ropagation, E	urface lectronics Divisio

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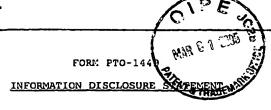
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- 1	_ AA40	4,017,798	04/1	977	Gor	dy et al.	32	5	42	
V	AB40	4,032,847	06/1	977	Unk	auf	32	5	323	
	AC40	4,253,067	02/1	981	Cap	les et al.	329	9	110	
ſ	AD40	4,393,395	07/1	983	Hac	ke et al.	358	3	23	
	AE40	4,816,704	03/1	989	Fior	i,Jr.	307	7	519	
	AF40	4,841,265	06/1	989	Wat	anabe et al.	333	3	194	
	AG40	4,943,974	07/1	990	Mot	amedi	375	5	1	
	AH40	5,115,409	05/1	992	Ster)p	364	1	841	
	Al40	5,353,306	10/1	994	Yan	namoto	375	5	14	
				FOREIGN	I PAT	ENT DOCUMENTS				
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	AJ40									Y
	AK40 AL40									Y
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	AM40									Ye
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al .	AN	Tawfik, A.N. Internationa 4-7, 1989).	and Vi	lar, E., "Dyna rence on Ant	amic \$ ennas	Structure of a Transhorizon s and <i>Propagation (ICAP 8</i>	n Signal at 39) Part 2: I	X-band Propag	Over a Sea ation, IEE, pp	Path," <i>Sixth</i> b. 446-450 (April
1	AO	40 Tawfik, A.N. Path," Elect	and Vi onics L	lar, E., "Statio Letters, IEE, V	stics (Vol. 2	of Duration and Intensity o 6, No. 7, pp. 474–476 (Ma	f Path Loss rch 29, 199	s in a M 10).	licrowave Tra	inshorizon Sea-
	AP	40 I Path Loss, E	Juration	i of Events, a	ınd Ti	anshorizon Measurement neir Modeling," <i>IEEE Trans</i> ol. 41, No. 11, pp. 1491-19	sactions on	Anten	nas and Pron	ne Sea- Part 1: Pagation, IEEE
	AQ	Temes, G.C IEEE, Vol. 7	. and Ti 1, No. 8	sividis, T., 'Ti 3, pp. 915-91	he Sp 6 (Au	pecial Section on Switched gust 1983).	l-Capacitor	Circuit	s," <i>Proceedir</i>	ngs of the IEEE,
L	AR	40 Thomas, G.	3., Calc	ulus and Ane	alytic	Geometry, Third Edition, A	Addison-We	esley P	ublishing, pp.	119-133 (1960)
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APPLICANT Sorrells et al.

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January 29, 2001 2683 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE NUMBER CLASS **AA41** 5,515,014 05/1996 Troutman 178 332 **AB41** 5,563,550 10/1996 Toth 329 347 AC41 5,574,755 11/1996 Persico 375 295 AD41 5,604,592 02/1997 Kotidis et al. 356 357 AE41 5,638,396 06/1997 Klimek 372 92 AF41 5,675,392 10/1997 Nayebi et al. 348 584 AG41 5,694,096 12/1997 Ushiroku et al. 333 195 **AH41** 5,757,870 05/1998 Miya et al. 375 367 **Al41** 5,768,323 06/1998 Kroeger et al. 375 355 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION **CLASS** AJ41 Yes No AK41 Yes Nο AL41 Yes No AM41 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Tomassetti, Q., "An Unusual Microwave Mixer," 16th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986). AN 41 Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, IEEE Ultrasonics, Ferroelectrics, and AO <u>41</u> Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984). Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 AP <u>41</u> (1985).Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, ΑQ <u>41</u> IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983). Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHZ, 900 MHZ, and 2.6 Ghz Band Radio Communication Systems," 41st IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457–462 (May 19-22, 1991). AR <u>41</u>

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ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT Sorrells et al.

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1	AA42	5,7	70,985	06/1	998	Ush	iroku <i>et al.</i>	33:	3	193	
70	AB42	5,7	78,022	07/1	998	Wal	ley	37	5	206	
	AC42	5,8	12,546	09/19	998	Zho	u et al.	370)	342	
	AD42	5,8	18,869	10/19	998	Miya	et al.	379	5	206	
	AE42	5,8	44,449	12/19	998	Abe	no et al.	333	2	105	
	AF42	5,8	72,446	02/1	999	Cra	nford, Jr. et al.	323	3	315	
	AG42	5,9	09,447	06/19	999	Cox	et al.	370)	508	
	AH42	5,9	33,467	08/19	999	Seh	er et al.	375	5	350	
	A142	5,9	52,895	09/19	999	McC	une, Jr. et al.	332	2	128	
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	AJ42										Yes No
	AK42		·								Yes No
	AL42		·								Yes No
	AM42										Yes No
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12	AN	<u>42</u>	Valdmanis, J. Electronic De	A. et a	al., "Picoseco " IEDM Tech	ond ai	nd Subpicosend Optoelec Digest, IEEE, pp. 597-600	tronics for I O (Decembe	Measur er 5-7, 1	ements of Fu 983).	iture High Speed
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	AP	<u>42</u>	Vasseur, H. a Electronics Le	nd Va otte <i>r</i> s,	nhoenacker, IEE, Vol. 34,	D., "(, No. /	Characterization of tropos 4, pp. 318-319 (February	pheric turbi 19, 1998).	ulent lay	ers from rad	liosonde data,"
	AQ	<u>42</u>	Verdone, R., " Environments pp. 1027-1039	, IEEI	E Transactio	ns on	ysis for Short-Range Con Vehicular Technology, IE	nmunication EEE Vehicu	Syster	ns at 60 Ghz nnology Soci	in ATT Urban sty, Vol. 46, No. 4,
	AR	<u>42</u>	Vierira-Ribeiro Sigma-Delta M Services, pp.	/lodula	<i>itor</i> , Thesis f	or De	Receiver Architecture usi gree of Master's of Engin	ng a Quadr eering, Car	ature S eton Ui	ub-Sampling niversity, UM	Band-Pass I Dissertation
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	AA43	5,9	60,033	09/1	999	Shib	ano et al.	37	5	207	
	AB43	6,0	41,073	03/2	000	Dav	idovici et al.	37	5	148	
	AC43	6,0	54,889	04/2	000	Kob	ayashi	32	7	357	
	AD43	6,0	84,922	07/2	000	Zho	u et al.	37	5	316	
	AE43	6,1	25,271	09/2	000	Row	fand et al.	45	5	313	
	AF43	6,14	47,340	11/2	000	Levy	<u> </u>	25)	214 R	
	AG43	6,14	47,763	11/2	000	Stei	nlechner	350	3	484	
	AH43	6,1	50,890	11/2	000	Dan	gaard et al.	33	1	14	
4/	A143	5,1	26,682	06/1	992	Wei	nberg <i>et al</i> .	329	9	304	
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	AJ43	_									<u> </u>
	AK43	-									<u> </u>
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	MINIAS)
	AO	<u>43</u>	International (17, 1997). Vilar, E. et al.	, "A S	ystem to Mea	ennas asure	ective MM-Wave Satellites and Propagation, Electron Elect	onics Divisi	on of th	e IEE, pp. 2	.98-2.101 (April online)
	АР	<u>43</u>	Vilar, E. and S	Smith,	H., "A Theor	retical and i	and Experimental Study Propagation, IEEE, Vol. A	of Angular P-34, No. 1	Scintilla	ations in Earl 10 (January	h Space Paths," 1986).
	AQ	43	Vilar, E. et al. Antennas and	, "A W I Propa	ide Band Tra agation, Elec	ansho	rizon Experiment at 11.6 s Division of the IEE, pp.	Ghz," <i>Eight</i> 441-445 (N	h Inten Iarch 3	national Con 0- April 2, 19	ference on 193).
	AR	<u>43</u>	Vilar, E. and N 8, No. 20, pp.	/latthe 509-5	ws, P.A., "Ar 11 (October	mplitu 5, 19	de Dependence of Frequ 72).	ency in Osc	illators	," Electronic:	s <i>Letter</i> s, IEE, V
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APPLICANT Sorrells et al.

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. امد	AA44	5,84	1,811	11/1	998	Song	<u> </u>		375	235	
Ar-	AB44	4,05	1,475	09/1	977	Cam	pbell		343	180	
	AC44	5,95	3,642	09/1	999	Feld	ikeller et al.	-	455	195.1	1
	AD44	4,65	3,117	03/1	987	Hec	<		455	209	
	AE44	5,85	9,878	01/1	999	Philli	ps et al.		375	316	
	AF44	5,89	4,496	04/1	999	Jone	s		455	126	
	AG44	5,91	5,278	06/1	999	Malli	ck		73	658	
	AH44	6,02	8,887	02/2	000	Ham	son et al.		375	206	
_ •	Al44	6,08	1,691	06/2	000	Rena	ard et al.		455	12.1	
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	AJ44										Yes No
	AK44										Yes No
	AL44										Yes No
	AM44							-			Yes No
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-pl-	AN	44	Vilar, E. and E	Procee Surgue	efio. A. "Ana	25" E	vave receiver system for uropean Microwave Cor	nference	e, Nexus Hoi	n Rate Evos	119 (1995).
	AO	44	No. 9, pp. 130	de Dy 16-131	namics," IEE 2 (Septembe	E Trai	nsactions on Communic 1).	ations,	IEEE Comm	unications Se	ociety, Vol. 39,
	АР	44	Vilar, E. et al., Conference of 1985).	, "Ang n <i>Ante</i>	le of Arrival I ennas and Pr	Fluctua opaga	ations in High and Low E tion (ICAP 85), Electron	Elevatio nics Divi	n Earth Spaci ision of the II	æ Paths," <i>Fo</i> EE, pp. 83-88	ourth International 3 (April 16-19,
	AQ 44 Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," Electronics Division Colloquium on Teaching Antennas and Propagation to Undergraduates, IEE, pp. 7/1-7/6 (March 8, 1988).										
	AR Vilar, E. et al., "CERS*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," Electronics Division Colloquium on CERS- Communications Engineering Research Satellile, IEE, pp. 10/1-10/10 (April 10, 1984).										
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APPLICATION NO. 09/770,675

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Sorrells et al.

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M	AA45	6,121,819	09/2	000	Tra	ylor	327	7	359	
70	AB45	6,144,236	11/2	000	Via	e et al.	327	7	113	
	AC45	6,144,846	11/2	000	Dur	ec	455	5	323	
	AD45	6,175,728 B1	01/2	001	Mita	ıma	455	5	323	03/03/1998
	AE45	5,705,949	01/1	998	Ale	yunas e <i>t al</i> .	329	•	304	
	AF45	5,883,548	03/1	999	Ass	ard et al.	329		306	
	AG45	4,484,143	11/1	984	Fre	nch et al.	329)	50	
	AH45	5,841,324	11/1	998	Will	iams	331	1	17	T
<i>\\</i>	A145	4,855,894	08/1	989	Asa	hi <i>et al.</i>	363	3	157	
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	AK45									Yes No
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	AM45									Yes
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Ju .	AN	Vilar, E. and Electronics	l Mouls Letters,	ley, T.J., "Co IEE, Vol. 21	mme , No.	nt and Reply: Probability D 14, pp. 620-622 (July 4, 19	ensity Fun 185).	ction of	Amplitude S	cintillations,"
	AO	Vilar, E. et a Letters, IEE	il., "Con , Vol. 28	nparison of R 8, No. 20, pp.	tainfa 192	II Rate Duration Distributio 2-1924 (September 24, 199	ns for ILE- 92).	IFE and	d Barcelona,	' Electronics
	АР	Vilar, E., "De No. 9, pp. 73	epolariz 32-733	ation and Fie (April 25, 199	eld Tr 91).	ansmittances in Indoor Cor	nmunicatio	ons," <i>El</i>	ectronics Le	tters, IEE, Vol. 27
	AQ	Vilar, E. and Paths," <i>Sixti</i> 150-154 (Ap	intern	ational Confe	ation Penc	Dependence of Amplitude s on Antennas and Propaga	Scintillation ation (ICA)	ns on Le 2 89) P	ow Elevation art 2: Propag	Earth Space vation, IEE, pp.
	AR	Vilar, E. et a <u>45</u> European M 1988).	I., "Exp icroway	erimental Sys	stem e, Mi	and Measurements of Tran crowave Exhibitions and Po	ishorizon S iblishers L	Signal L td., pp.	evels at 11 (429-435 (Se	Shz," <i>18th</i> ptember 12 - 15,
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APPLICANT Sorrells et al.

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AN	<u>46</u>	Vilar, E. and the 4th Europe 1974).	Matthe	ws, P.A., "in crowave Cor	nportai nferend	nce of Amplitude Scinti ce, Microwave Exhibitio	llations in Millimetric ons and Publishers,	: Radio Links pp. 202-206 (," <i>Proceedings of</i> (September 10-1
AO	<u>46</u>	Parameters in	an Ea	arth-Space F	ath," /	nt and Modeling of Scin EEE Transactions on A I, pp. 340-346 (April 19	Intennas and Propa	Estimate Tur gation, IEEE	bulence Antennas and
AP	<u>46</u>	Vilar, E. and M Electronics Le	Matthe otters,	ws, P.A., "M IEE, Vol. 7, I	easure No. 18	ement of Phase Fluctue , pp. 566-568 (Septem	ations on Millimetric ber 9, 1971).	Radiowave P	ropagation,"
AQ	<u>46</u>	Vilar, E. and V Millimetre Ban 5/1-5/8 (Janua	id," Eli	ectronics Div	w and t	Wide Band Estimates of Colloquium on Radioco	of Field Strength for mmunications in the	Indoor Comn Range 30-6	nunications in the O Ghz, IEE, pp.
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FORM PTO-1469

ATTY. DOCKET NO. 1744.0140005

APPLICATION NO. 09/770,675

APPLICANT

Sorrells et al.

FILING DATE January 29, 2001 GROUP 2683

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AB47 5,157,687 10/1992 Tymes 375 1 AC47 5,945,660 06/1999 Nakasuji et al. 235 462.46 AD47 6,091,939 07/2000 Banh 455 102 AE47 6,098,386 08/2000 Morryama et al. 455 126 AF47 6,098,386 08/2000 Swift et al. 235 472.01 AG47 8,215,475 B1 04/2001 Meyerson et al. 345 173 06/07/1995 AH47 6,049,706 04/2000 Cook et al. 455 313 AH47 6,061,551 05/2000 Sorrells et al. 455 118 FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TRANSLATIC CLASS SUBCLAS TO TRANSLATIC CLASS SUBCLASS TO TRANSLATIC CLASS SUBCLASS TO TRANSLATIC CLASS SUBCLASS TRANSLATIC CLASS SUBCLASS TO TRANSLATIC CLASS SUBCLASS TO TRANSLATIC CLASS SUBCLASS TO TRANSLATIC CLASS SUBCLAST TO TRANSLATIC CLASS SUBCLAST TO TRANSLATIC CLASS SUBCLAST TO TRANSLATIC TO TRANSLATIC TO TRANSLATIC TO TRANSLATIC TO TRANSLATIC TO TRANSLATIC TO					DAT	E	NAN)E .	CLASS		FILING DATE
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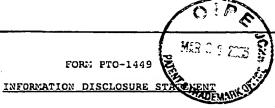
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